

Refer to the Destination "M1" of service manual DPX-4020's parts list (B51-7776-00) except the following parts.

## PARTS LIST

\*New Parts

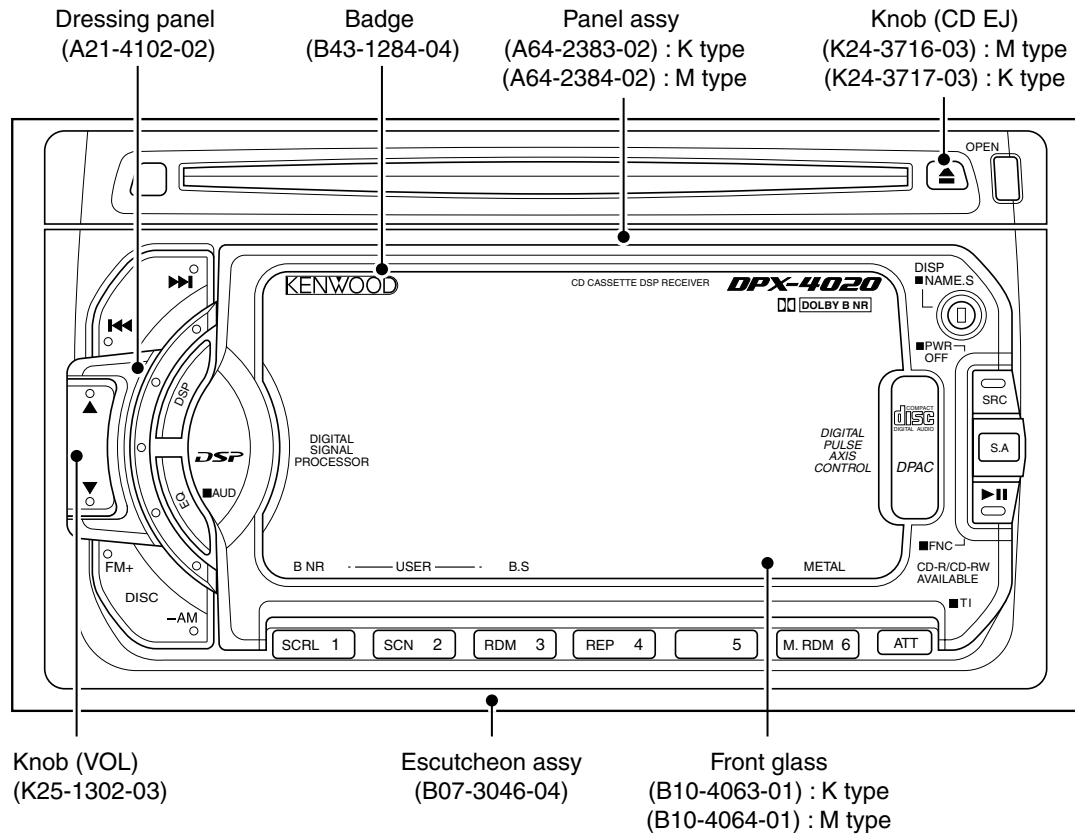
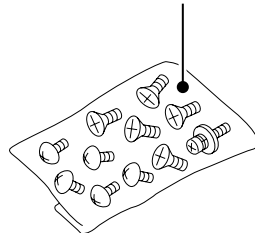
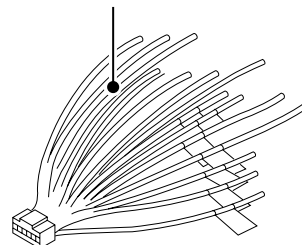
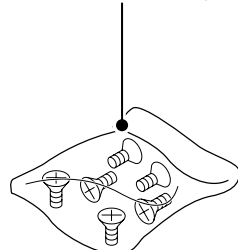
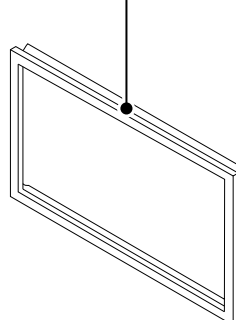
Ref. No.	A d d	N e w	Parts No.	Description
<b>DPX-5030</b>				
204	3E		A22-2974-02	SUB PANEL ASSY
205	3E		A22-2975-01	SUB PANEL
207	1H		A46-1721-21	REAR COVER
208	1H		A46-1725-03	REAR COVER
PA1	3G		A64-2778-02	PANEL ASSY
213	3G		B10-4289-01	FRONT GLASS
-			H54-2572-03	ITEM CARTON CASE

Ref. No.	A d d	N e w	Parts No.	Description
250	2E		K24-3888-03	KNOB (CD EJECT)
251	2E		K24-3889-03	KNOB (OPEN)
252	3H		K24-3891-03	KNOB (DSP)
253	3H		K24-3892-03	KNOB (EQ)
254	3H		K24-3890-03	KNOB (SA)
255	1H		K25-1288-03	KNOB (CASSETTE EJECT)
256	3H		K25-1467-02	KNOB (SRC)
257	2H		K25-1468-02	KNOB (SEEK)
258	3H		K25-1469-02	KNOB (FM)
259	3H		K25-1470-03	KNOB (VOL)
260	3H		K25-1471-02	KNOB (1-6)
271	1F		N99-1724-05	SCREW SET

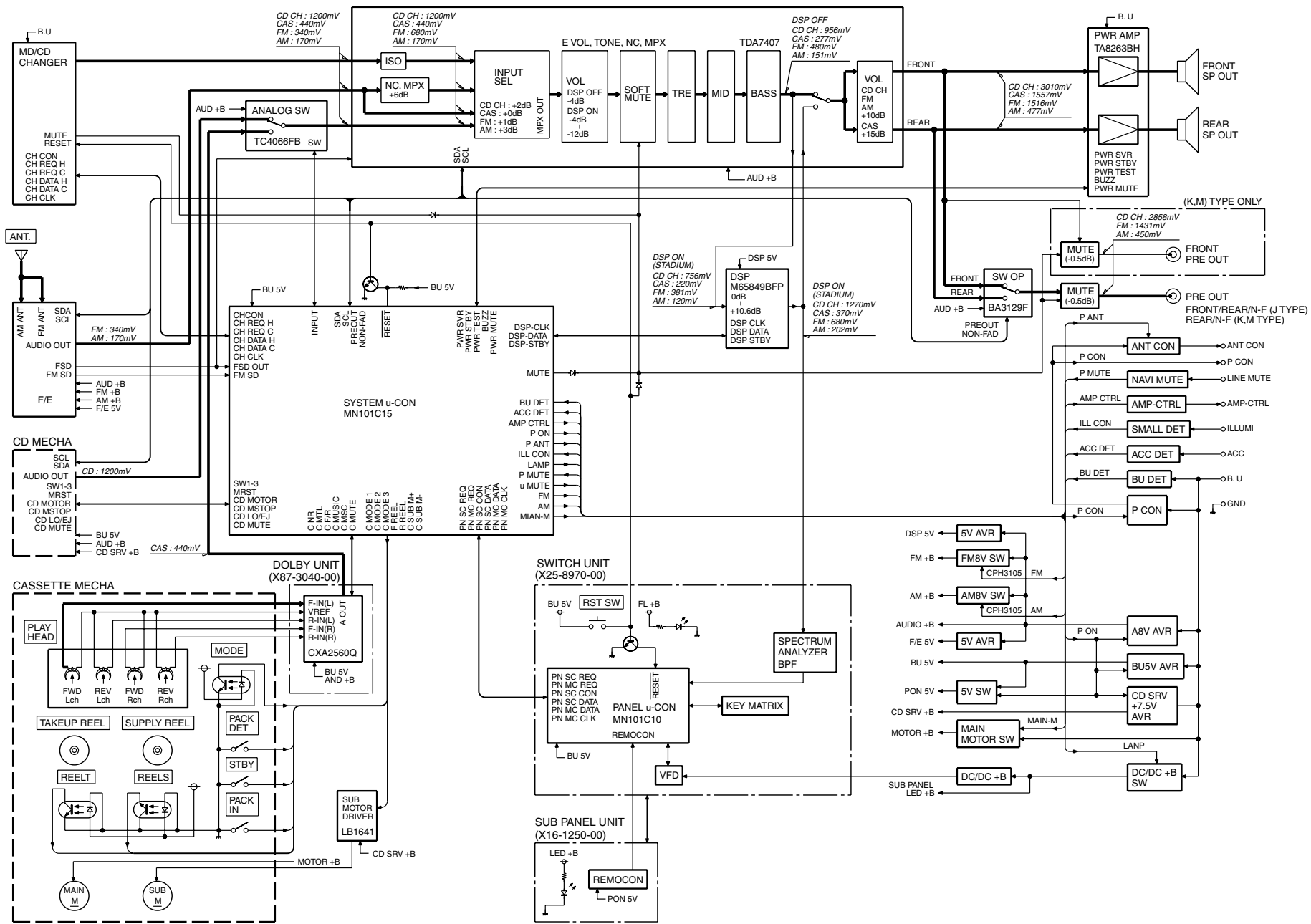
# DPX-4020

## SERVICE MANUAL

# KENWOOD

© 2001-5 PRINTED IN JAPAN  
B51-7776-00 (N) 1734Screw set  
(N99-1701-05) : M typeDC cord  
(E30-4939-05)Screw set  
(N99-1711-05) : K typeEscutcheon assy  
(B07-3047-04) : K type

# BLOCK DIAGRAM



## COMPONENTS DESCRIPTION

## ● SYNTHESIZER UNIT (X14-6710-XX)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	MN101C15FCP	System micom	
IC2	TDA7407	Electronic volume	
IC3	TC4066BF(N)	Analog SW	Voice signal input switching (CD,MD,CASSETTE)
IC4	M65849BFP	DSP IC	
IC5	BA3129F	Switching ope-amplifier	Voice signal output switching (FRONT,REAR)
IC7	TA8263BH	PWR IC	
IC8	LB1641	Motor driver	For cassette mechanism sub-motor
IC9	PST9135NR	Reset IC	Reset 3.5V voltages
IC10	TC7W02FU	Logic IC(OR)	Logic circuit for MUTE
IC11	M5237ML	Power source IC	Reg for A8V
Q1	2SC4081	Power source SW for F/E VDD 5V	ON:F/E VDD 5V output
Q2	CPH3105	Power source SW for FM	ON:FM+B 8V output
Q3	CPH3105	Power source SW for AM	ON:AM+B 8V output
Q4	FMG1A	Power source control SW for FM/AM	ON:FM+B/AM+B 8V output
Q101	2SB1443	Power source SW for main motor	ON:Main motor ON
Q102	DTC144EK	Power source control SW for main motor	ON:Main motor ON
Q201	DTC143TK	MUTE SW	ON:MUTE
Q202	DTC143TK	MUTE SW	
Q301	DTC143TK	MUTE SW	
Q302	DTC143TK	MUTE SW	
Q401	DTC124EUA	SW for electronic volume mute	ON:MUTE
Q402	FMC2A	SW for analog switch control	
Q403	DTC144EUA	SW for switching ope-amplifier control	
Q404	DTC144EUA	SW for power IC mute terminal control	ON:Temperature protection OFF (Test mode)
Q405	DTA114EUA	Control terminal for MUTE (preout)	ON:MUTE
Q406	DTA114EUA	Control terminal for MUTE (preout)	ON:MUTE
Q407	DTA114EUA	SW for electronic volume mute	ON:MUTE
Q601	DTC114YUA	SW for system micom reset	ON:REEST
Q602	DTA124EUA	SW for RESET IC output	ON:REEST
Q701	DTC144EUA	SW for BU surge detection	ON:Serge(power down)
Q702	FMW1	SW for BU/ACC detection	ON:Power down
Q703	DTC144EUA	SMALL detection SW	ON:SMALL ON
Q705	DTA124EUA	SW for external amplifier control	
Q706	2SB1277(Q,R)	SW for P-CON	ON:P-CON output
Q707	2SA1037K	SW for P-CON over-electric current protect	ON:Stop P-CON output
Q708	DTA124EUA	Control SW for P-CON over-electric current protect	ON:Stop P-CON output
Q709	DTC114YUA	Control switch for P-CON	ON:P-CON output
Q710	2SB1277(Q,R)	SW for P-ANT	ON:P-ANT output
Q711	DTC114YUA	Control switch for P-ANT	ON:P-ANT output
Q712	2SB1548(P)	Power source switch for BU 5V	
Q713	2SC4081	Power source switch for BU 5V (Darling ton)	
Q714	IMD16A	Power source switch for PON 5V	ON:PON 5V output
Q715	FMC2A	Power source control switch for analog+B	ON:Analog+B 8V output
Q716	2SB1548(P)	Power source switch for analog+B	ON:Analog+B 8V output
Q717	2SD1766	Power source switch for DSP+B	ON:DSP+B 5V output
Q718	FMC2A	Power source control switch for servo+B	ON:Servo+B 7.5V output
Q719	2SB1548(P)	Power source switch for servo+B	ON:Servo+B 7.5V output
Q720	2SC4081	Power source switch for servo+B(Darling ton)	ON:Servo+B 7.5V output
Q724	2SB1548(P)	Power source switch for servo+B	ON:Servo+B 7.5V output
Q901	FMC3A	Power source control switch for ILLUMI+B	ON:ILLUMI+B 14.4V output
Q902	2SB1446	Power source switch for ILLUMI+B (Darling ton)	ON:ILLUMI+B 14.4V output
Q903	2SC4081	Power source switch for ILLUMI+B	ON:ILLUMI+B 14.4V output

# DPX-4020

## COMPONENTS DESCRIPTION

### ● SUB CIRCUIT UNIT (X16-1250-00)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	SBX-3050	Remote control IC	Light receive port of remote controller

### ● DOLBY UNIT (X87-3040-00)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	CXA2560Q	DOLBY IC	PRE-AMP/DOLBY-EQ
Q1	KRC103S	Between-music detection level adjustment FF/REW	FF/REW ON

### ● SWITCH UNIT (X25-8970-00)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	MN101C10AAL	Panel micom	Display mechanism & key matrix control
IC2	BA3830F	BAND PASS IC (Spectrum analyzer)	Signal data from X14 are displayed with strength of frequency
Q1	DTC114EUA	RST switch	H:RST
Q2	2SK3018	Analog signal AGC	Auto gain control of analog signal
Q3	UMC3N	SW5V	H:ON
Q4	FMC4A	SW for VFD logic power source	H:ON
Q5	DTC114EUA	VFD blanking control	H:ON

# DPX-4020

## MICROCOMPUTER'S TERMINAL DESCRIPTION

### ● SYSTEM $\mu$ -COM (IC1:X14-6710-XX) MN101C15FCP

Pin.No.	Pin name	I/O	Description	Processing Operation
1	VREF-	-	Connected to GND.	
2	NC	I	Not used. Connected to GND.	
3	FM_SD	I	FM SD input.	
4	F_REEL	I	Reel pulse (FWD) detection.	Hi-Z
5	R_REEL	I	Reel pulse (REV) detection.	Hi-Z
6	NC	I	Not used. Connected to GND.	
7	ACC_DET	I	Acc detection input.	
8	SMALL	I	SMALL detection input.	
9	LINE MUTE	I	LINE MUTE detection input.	
10	VREF+	-	A/D converter. Reference voltage input terminal.	
11	VDD	-	Main power input.	
12	X' Tal (8.38)	O	Connected to main clock.	
13	X' Tal (8.38)	I	Connected to main clock.	
14	VSS	-	Connected to GND.	
15	XI	I	Connected to GND.	
16	XO	O	Open.	
17	MMOD	I	Connected to GND.	
18	PN_MC_DATA	O	Data output to panel micom.	
19	PN_SC_DATA	I	Data input from panel micom.	
20	PN_MC_CLK	O	Clock output to panel micom.	
21	CH_DATAH	O	Data output to CD-CH.	
22	CH_DATA C	I	Data input from CD-CH.	
23	CH_CHCLK	I/O	Previous bus : Data input from CD-CH. New bus : Data output to CD-CH.	
24	BEEP	O	Beep output.	
25	RESET	I	System reset.	
26	CH_REQH	O	Send request output to CD-CH.	
27	CH_CON1	-	Operation control of CD-CH1.	
28	CH_CON2	-	Operation control of CD-CH2.	
29	P_ANT	-	Power ANT control.	
30	P_CON	-	External amplifier power control.	
31	BU_DET	I	Back up detection input.	
32	CH_REQC	I	Send request input from CD-CH.	
33	PN_SC_REQ	I	Send request input from panel micom.	
34	SEL1	-	IC2IV noise cancellation selection.	
35	SEL2	-	IC2IV noise cancellation selection.	
36	SDA	I/O	I2C data input/output.	
37	NC	-	Not used. (Open)	
38	SCL	O	I2C clock output.	
39	P_ON	-	Internal power control.	
40	LAMP	-	Key illumination control.	

# DPX-4020

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin.No.	Pin name	I/O	Description	Processing Operation
41	PN_MC_REQ	O	Send request output to panel micom.	
42	PN_SC_CON	O	Operation control output of panel micom.	
43	NON_FAD	O	Control Non-Fad output. (ON/OFF)	
44	MUTE	O	Audio mute output.	
45	TYPE1	I	Destination type input.	
46	TYPE2	I	Destination type input.	
47	PNL_OPEN	-	Panel open detection.	
48	C_SUB_M-	O	C mechanism loading motor control.	L
49	C_SUB_M+	O	C mechanism loading motor control.	L
50	C_MAIN_M	O	C mechanism motor control.	L
51	C_MODE3	I	Sub-motor control SW3 (pack-in detection).	Hi-Z
52	C_MODE2	I	Sub-motor control SW2.	Hi-Z
53	C_MODE1	I	Sub-motor control SW1.	Hi-Z
54	CD_SW1	I	Input from CDSW1.(loading start SW)	
55	CD_SW2	I	Input from CDSW2.(12cm disc detection SW)	
56	CD_SW3	I	Input from CDSW3.(down & limit switch)	
57	CD_LO/EJ	-	CD mechanism loading motor control .(LO/EJ)	
58	CD_LMON	-	CD mechanism loading motor control .(ON/OFF)	
59	CD_MSTOP	O	Stop output to CD mechanism computer.	
60	CD_MRST	O	Reset output to CD mechanism.	
61	CD_MUTE	I	Mute input from CD mechanism.	
62	C_MUTE	O	EQ mute selection SW.	L
63	C_F/R	O	FWD/REV selection.	L
64	C_MSC	O	Between-music detection mode control.	L
65	C_NR	O	DOLBY control.(ON/OFF)	L
66	C_MS_IN	I	Between-music pulse detection input.	Hi-Z
67	C_MTL	O	METAL control.(ON/OFF)	L
68	DSP_DATA	O	Data output to DSP.	
69	DSP_CLK	O	CLK output to DSP.	
70	DSP_STB	O	Latch output to DSP.	
71	INPUT	-	Control input selected SW.	
72	NC	-	Not used.	
73	FM+B	-	FM power.	
74	AM+B	-	AM power.	
75	FSD_OUT	-	Station-meter detection.	
76	TEST	-	Power IC control.	
77	PW_MUTE	-	Power IC mute control.	
78	PWIC_STBY	-	Power IC standby control.	
79	PWIC_SVR	-	Power IC control.	
80	AMP_CTRL	-	External amplifier control.	

## MICROCOMPUTER'S TERMINAL DESCRIPTION

● PANEL  $\mu$ -COM (IC1 : X25-8970-00) MN101C10AAL

Pin.No.	Pin name	I/O	Description	Processing Operation
1	ANA4	I	Spectrum analyzer input.(1kHz)	H(Hi-Z)
2	ANA5	I	Spectrum analyzer input.(3.3kHz)	H(Hi-Z)
3	ANA6	I	Spectrum analyzer input.(10kHz)	H(Hi-Z)
4	NC	I	Not used. Connected to GND.	L(Hi-Z)
5	NC	I	Not used. Connected to GND.	L(Hi-Z)
6	VREF+	I	A/D converter. Reference voltage input terminal.	-
7	VDD	-	Main power input.	-
8	OSC2	-	Main clock connection.(16.0MHz)	-
9	OSC1	-	Main clock connection.(16.0MHz)	-
10	VSS	-	Connected to GND.	-
11	XI	I	Connected to GND.	L
12	XO	O	Not used.(Open)	-
13	MMOD	I	Connected to GND.	L
14	PN_SC_DATA	O	System computer communication.Data output terminal.	L
15	PN_MC_DATA	I	System computer communication.Data input terminal.	H/L(Hi-Z)
16	PN_MC_CLK	I	System computer communication.Clock input terminal.	H/L(Hi-Z)
17	VFD_DATA	O	VFD driver data output.	L
18	NC	O	Not used.(Open)	L
19	VFD_CLK	O	VFD driver clock output.	L
20	VFD_LAT	O	VFD driver latch output.	L
21	RST	I	Reset input.	-
22	VFD_BK	O	VFD driver blank output.	L
23	NC	O	Not used.(Open)	L
24	PON	O	P-ON 5V control.	L
25	NC	O	Not used.(Open)	L
26	PN_SC_REQ	O	System computer communication.Send request output.	L
27	PN_MC_REQ	I	System computer communication.Reception request input.	H(a)(Hi-Z)
28	PN_SC_CON	I	System computer communication.Panel operation control.	H(a)(Hi-Z)
29	REMOCON	I	Remote control signal input.	-
30	KR0	I	Key-return signal input 0.	-
31	KR1	I	Key-return signal input 1.	-
32	KR2	I	Key-return signal input 2.	-
33	KR3	I	Key-return signal input 3.	-
34	KR4	I	Key-return signal input 4.	-
35	KR5	I	Key-return signal input 5.	-
36	NC	O	Not used.(Open)	L
37	KS0	O	Key-scan signal output 0.	L
38	KS1	O	Key-scan signal output 1.	L
39	KS2	O	Key-scan signal output 2.	H
40	KS3	O	Key-scan signal output 3.	H
41~60	NC	O	Not used.(Open)	L
61	VREF-	I	Connected to GND.	L
62	ANA1	I	Spectrum analyzer input.(63Hz)	H(Hi-Z)
63	ANA2	I	Spectrum analyzer input.(150Hz)	H(Hi-Z)
64	ANA3	I	Spectrum analyzer input.(330Hz)	H(Hi-Z)



## TEST MODE / ADJUSTMENT

### ■ How to enter the test mode

While pressing on **[DSP]** + **[EQ]** or **[DSP]** + **[AM]** keys, press **[SRC]** key. It is possible to enter the test mode in this manner.

### ■ Test Mode Condition

When booted with all OFF.

The value for the volume is -10dB. (On display: 30)

Beep disabled.

All lights display.

CRSC: OFF (Only K/M type)

DSP: Bypass

EQ: Flat

SEP/ANA: Peak hold

However, when entering the test mode with **[DSP]** + **[AM]** key, the volume value will be -30dB with beep enabled.

The beep enable condition is such that, regardless of effective keys and non-effective keys, beeps are effective whenever keys are pressed.

### ■ Test Mode (Display)

Since there are many segment numbers in the display section, bridging with other segments can be confirmed (Only when the source condition is in all OFF.)

### ■ Test Mode (Source: CD)

When the disk is loaded, track No. 9 is the first track to be played.

The following keys are operated only when the source is CD. When there are changes in the track numbers being played in other cases, the playing is continued.

**[>>]** key selects only certain tracks.

**[<<]** key selects by going down the tracks, as with the regular operation.

### ■ Test Mode (EQ Adjustment)

When displaying the source, by pressing **[EQ/AUD]** once quickly, adjustment mode is entered.

When **[1]** key is press: Flat

When **[2]** key is pressed: Full boost

Whne **[3]** key is pressed: Full cut

### ■ The settings for Q, Feq, Ex are fixed.

Bass	Q	2.0
	Feq	150Hz
	Ext	ON
Mid	Q	2.0
	Feq	1kHz
Treble	Feq	10KHz

### ■ Test Mode (Audio Adjustment)

While displaying the source, by pressing **[EQ/AUD]** key in an elongated manner, adjustment mode is entered. By continuing with **[FM]** , **[AM]** key, the following items may be selected and **[<<]** and **[>>]** keys can be used for adjustment.

\* For balance adjustment, three steps of Right ,. Center ,. Left are set. (L15, R15)

\* For fader adjustment, three steps of Front ,. Center ,. Rear are set. (F15, R15)

\* For the amplifier control, OFF ,. 2

\* Test Mode (Function at the time of ALL OFF Source)

By pressing **[PLAY/PAUSE]** key in an elongated manner during each sources, adjustment mode can be entered and the following items are selected with **[AM]** , **[FM]** keys. Adjustment will be conducted with **[<<]** and **[>>]** keys.

The following are added to each source functions (including CD and TAPE).

For Preout adjustment, Front ,. Rear ,. N-F

\* Preout adjustment is the first item.

### ■ Releasing the Test Mode

Test mode is released by RESET, ACC OFF/ON, Power OFF/ON.

Also, Source, Tuner, and Audio are returned to initial condition by ACC OFF and Power OFF.

### ■ Backup current measurement compatible

Regardless of the test mode, when reset at ACC OFF condition (Backup is ON), MUTE will go OFF after two seconds. (The peripherals are not powered off unlit the CD/MD mechanism stops, it takes 2 seconds plus alpha.)

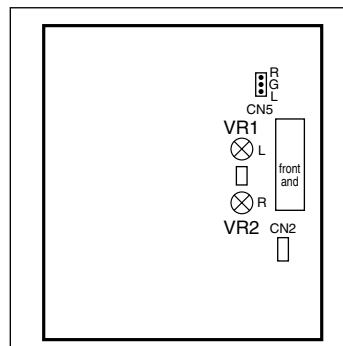
## Adjustment

This model has no adjustment items.

Tuner section adjustment is conducted for individual F/E and adjustment cannot be conducted on a set.

Dolby adjustment

Play the Tape TCC-130 and adjust so that -6dBm (388mV) is achieved at test points for Lch/Rch, Fwd/Rev. For each channel, common difference within 2dB (310mV - 488mV)

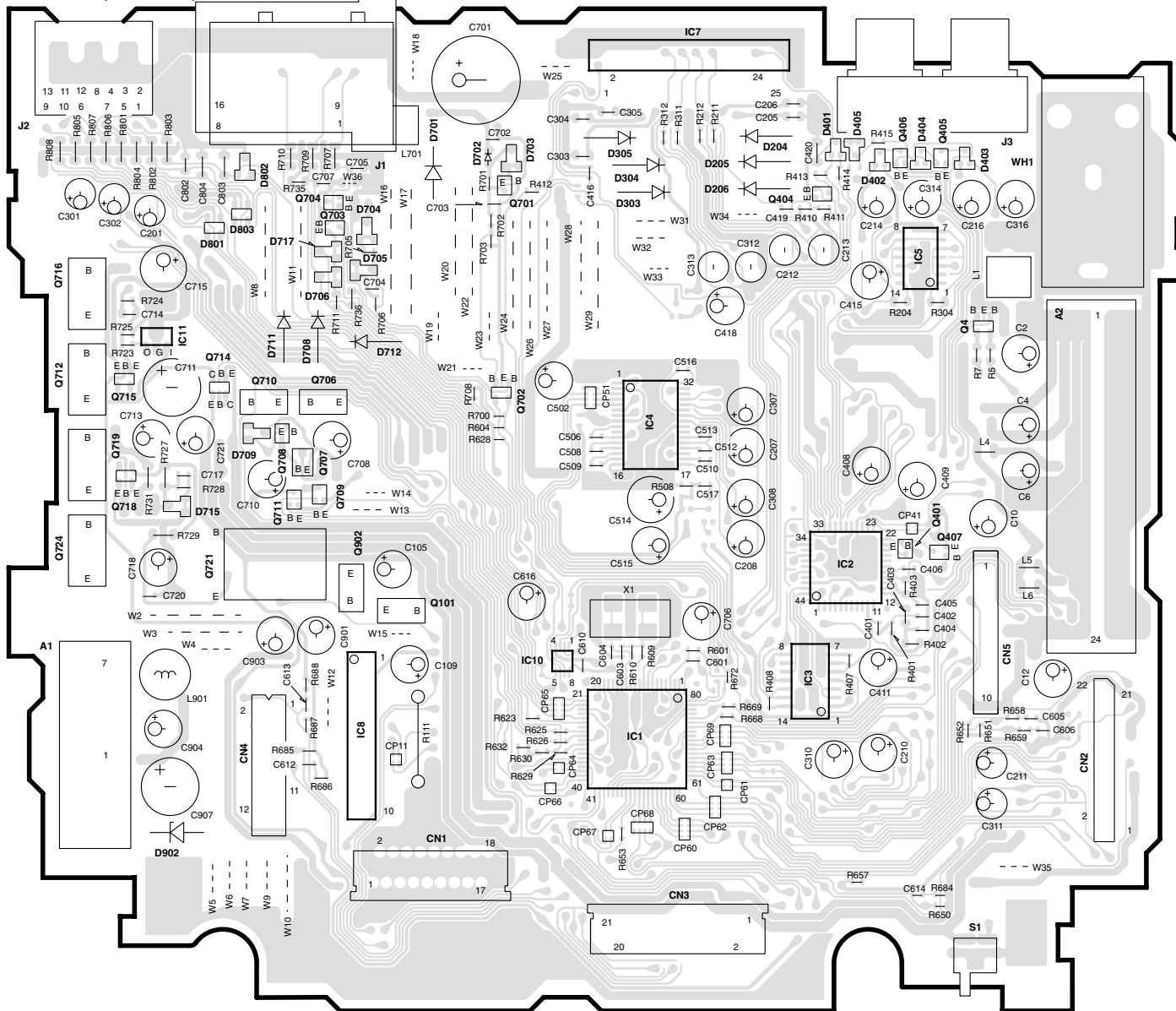


\* Make an end of adjustment prior to shipment from the factory.



# PC BOARD (COMPONENT SIDE VIEW)

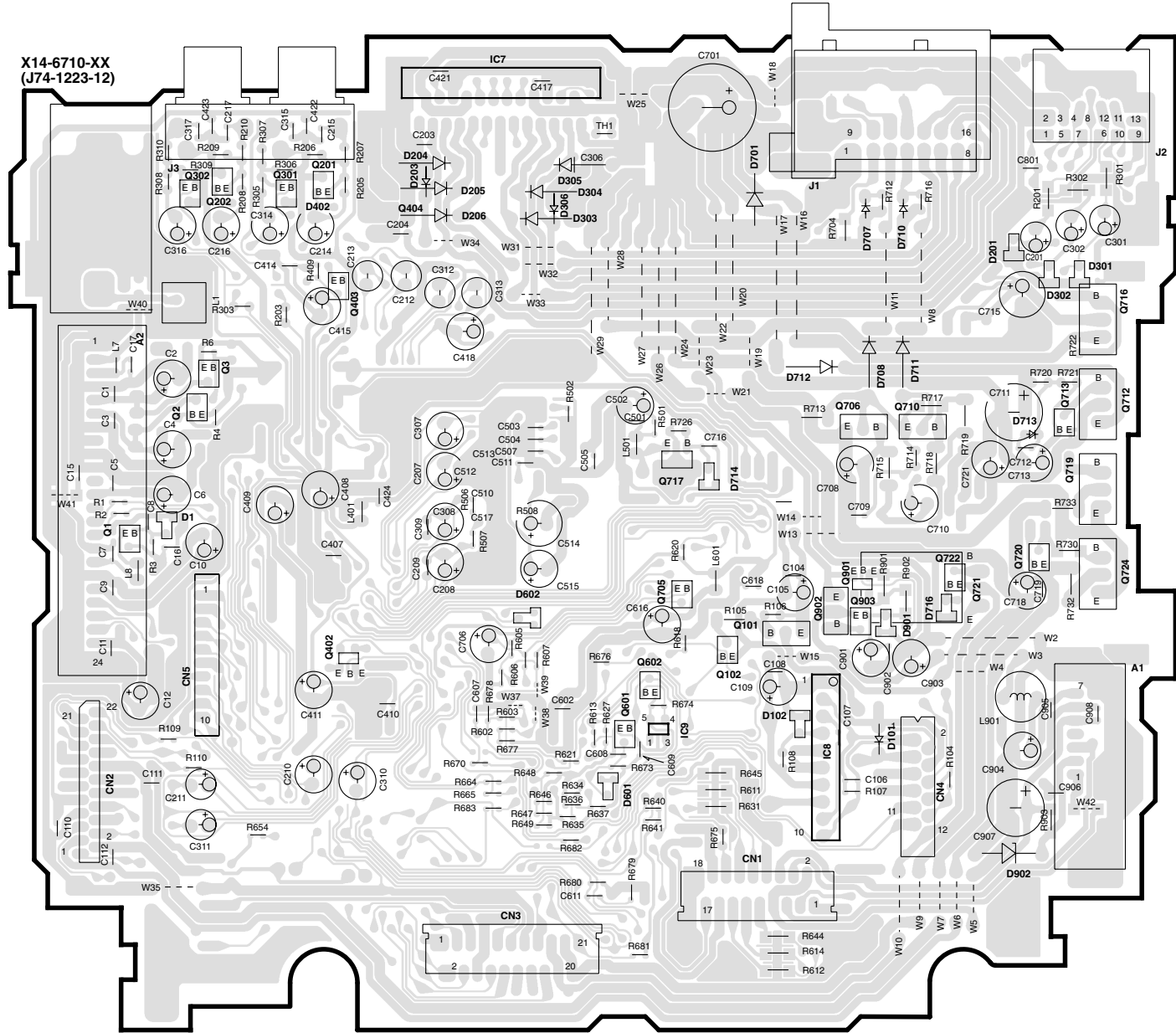
X14-6710-XX (J74-1223-12)



X14-6710-XX

IC	1	2	3	4	5	7	8	10	11	
Q										4 101 401 404 405 407 701
address	4H	4I	4I	3H	2I	2H	4G	4H	3F	3J 4G 4I 4I 2J 4G 2H
Q	702	703	706	707	708	709	710	711	712	714 715 716 718 724 902
address	3H	2G	3G	3G	3G	3G	3G	3F	3G	3F 3F 3F 3F 4F 4G

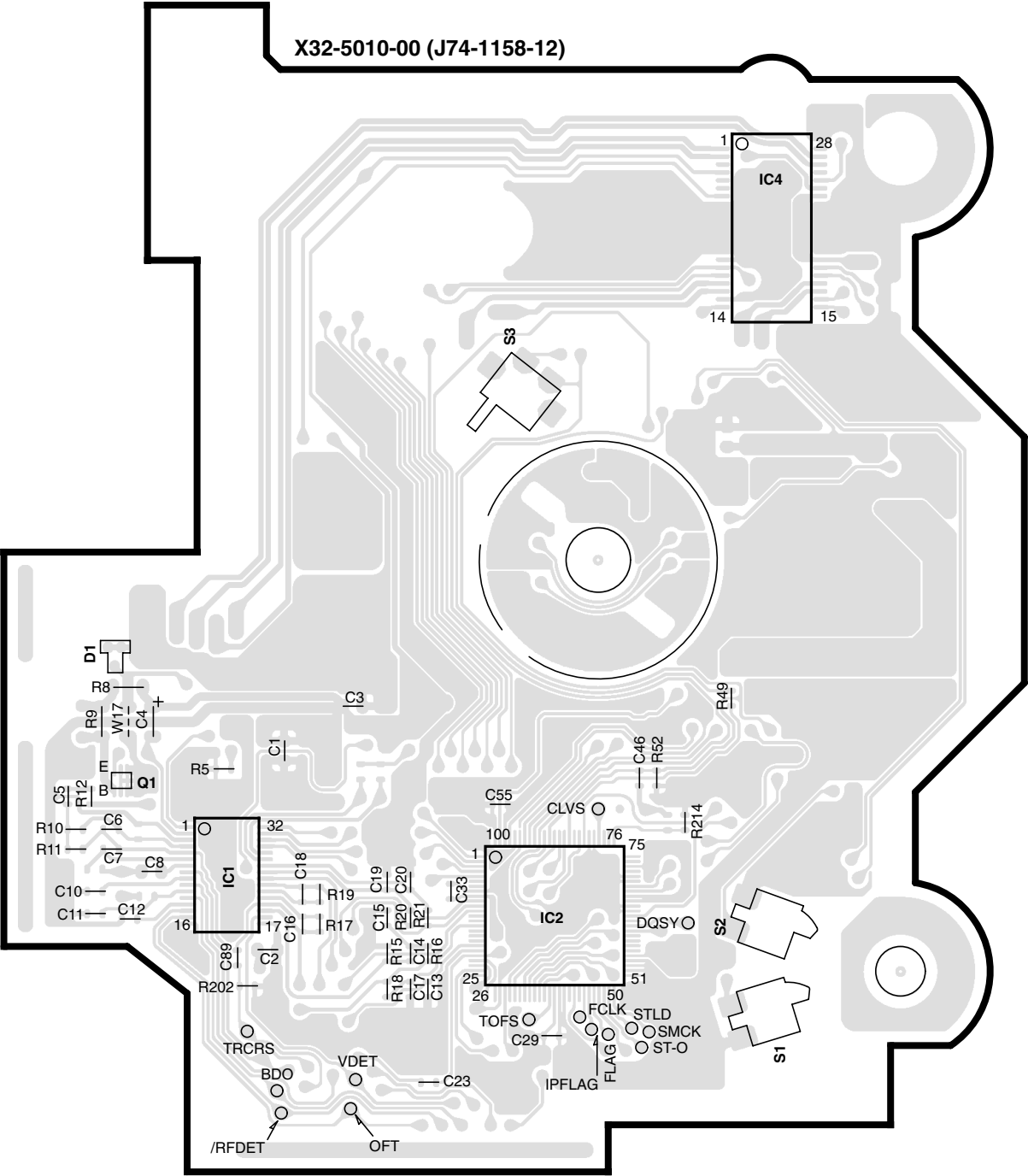
**X14-6710-XX**  
**(J74-1223-12)**



**X14-6710-XX**

IC	7 8 9														
Q	1 2 3 101 102 202 302 402 403 601 602														
address	1M	4N	4M	3K	3K	3K	4N	4N	2L	2K	4L	2L	4M	4M	
Q	705	706	710	712	713	716	717	719	720	721	724	901	902	903	
address	4M	3N	3N	3O	3O	2O	3M	3O	3O	4N	4O	3N	4N	4N	

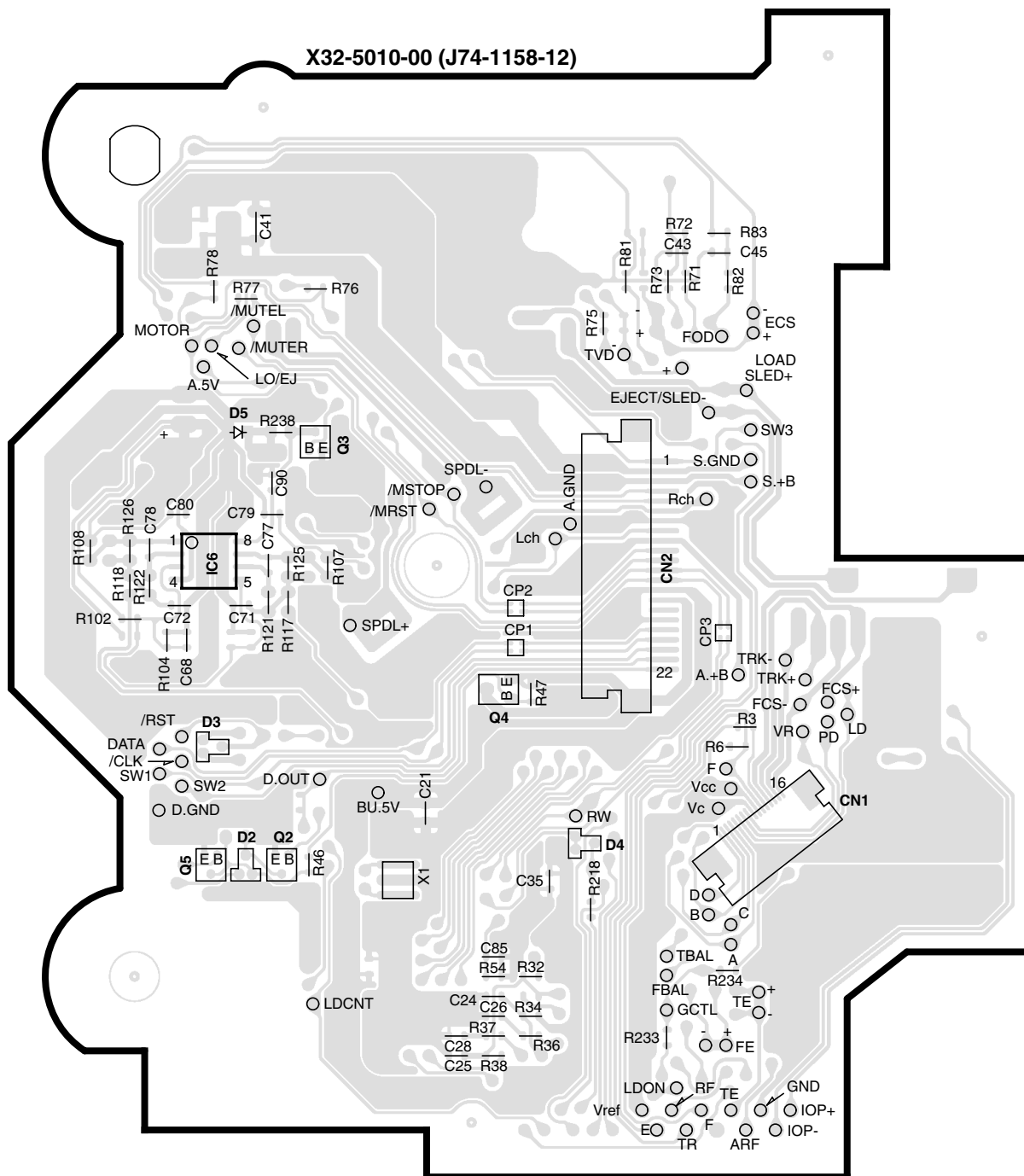
# PC BOARD (COMPONENT SIDE VIEW)



X32-5010-00

IC	1	2	4
Q			1
address	5Q	5R	2S 4Q

# PC BOARD (FOIL SIDE VIEW)

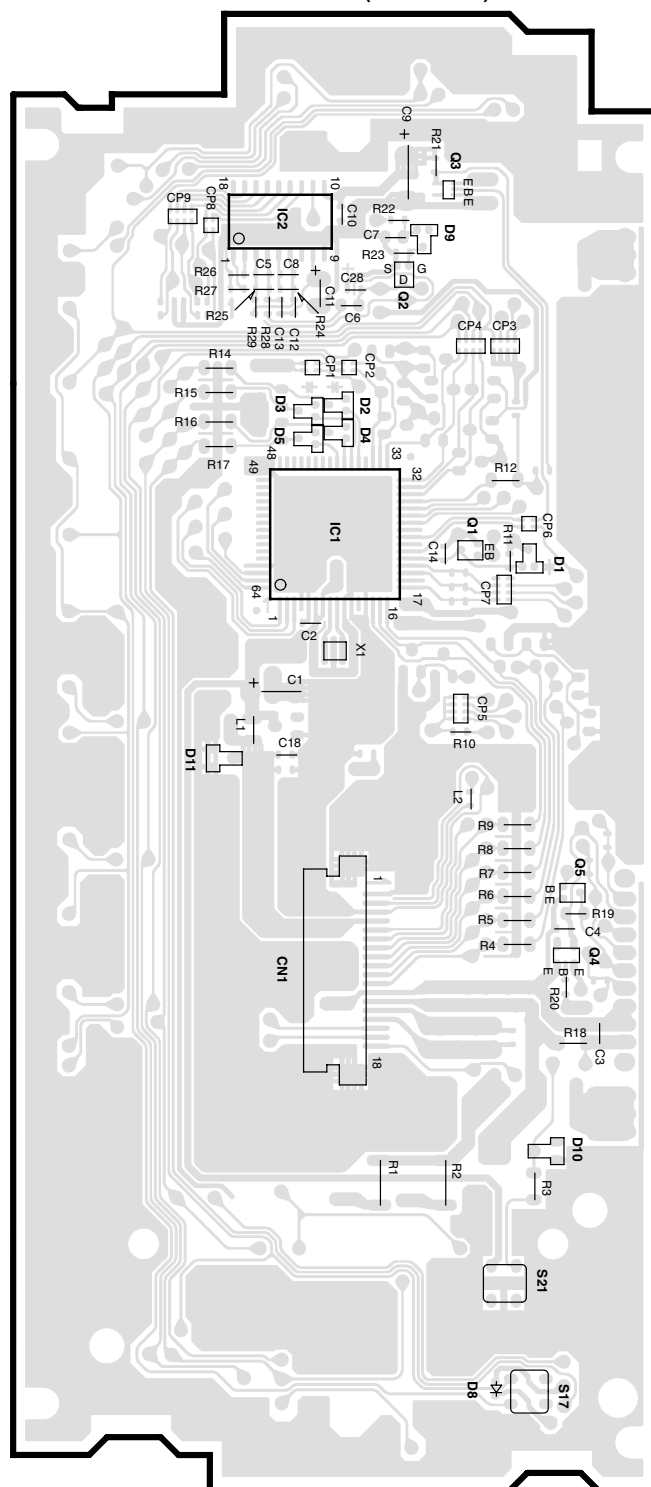


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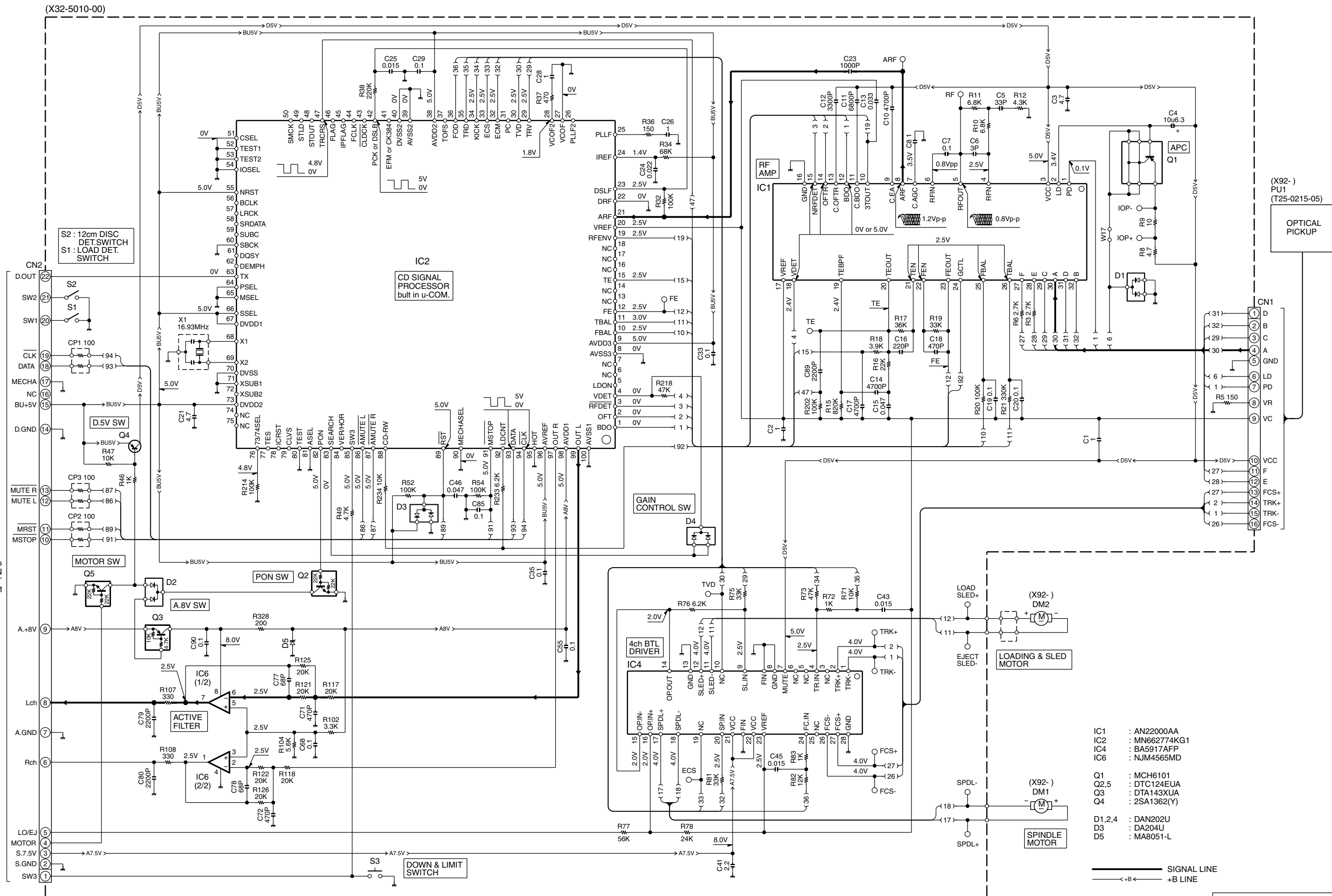
IC	6				
Q	2	3	4	5	
address	4V	5V	3V	4W	5V

**(FOIL SIDE VIEW)**

**X25-8970-00 (J74-1224-12)**



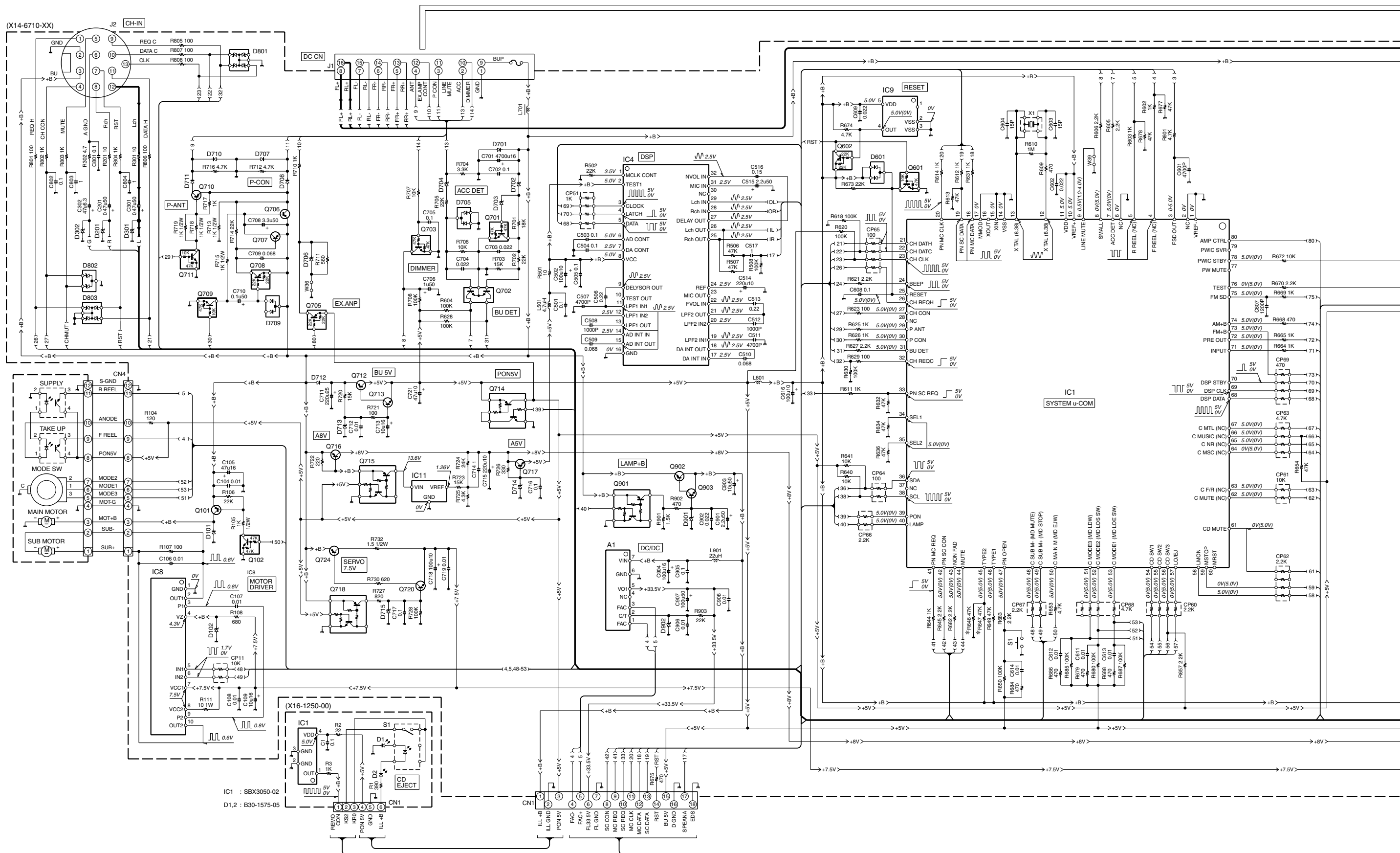
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Q		1	2	3	4	5
address	3AC 3AC	3AD 2AD	2AD 4AD	4AD		



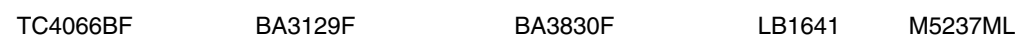
DPX-4020

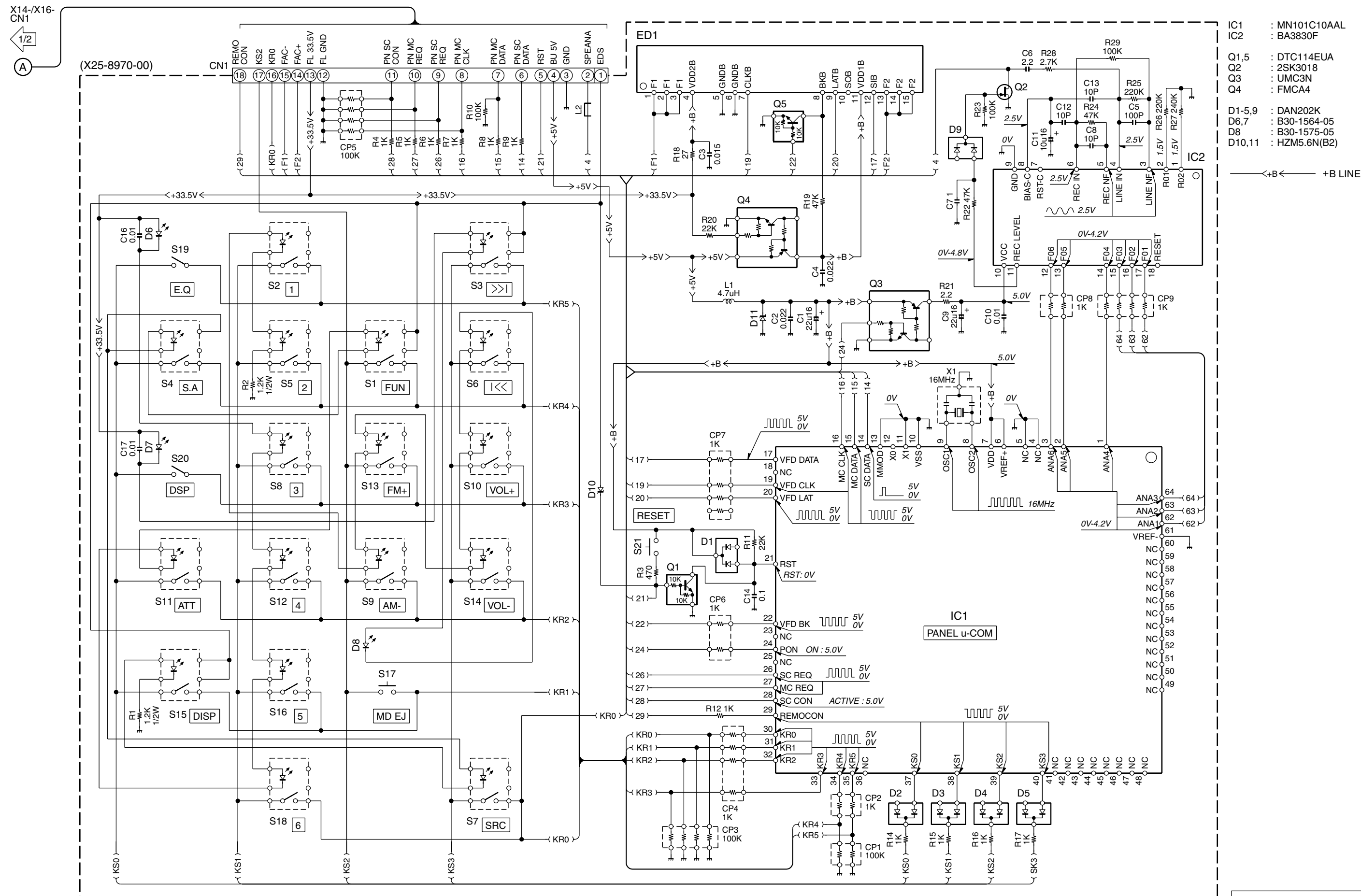
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- |  |                       |         |      |        |        |             |       |                     |   |          |                    |             |                       |   |
|--|-----------------------|---------|------|--------|--------|-------------|-------|---------------------|---|----------|--------------------|-------------|-----------------------|---|
| DTC114YUA<br>DTC124EK<br>DTC143TK<br>DTC144EK<br>KRC103S<br>UN5111<br>UN5114<br>UN5211 | UN5213<br>2SA136<br>2 | 2SD1766 | FMW1 | IMD16A | 2SB154 | 2SB127<br>7 | FMG1A | 2SA1037K<br>2SC4081 | DTA114EUA<br>DTA124EUA<br>DTC114EUA<br>DTC124EUA<br>DTC144EUA | NJM4565M | DAN202K<br>DAN202U | DAP202<br>U | MA142W<br>A<br>MA142W | 02CZ11-X<br>02CZ18-Y<br>02CZ4.3-<br>X<br>02CZ7.5- |
|  |                       |         |      |        |        |             |       |                     |   |          |                    |             |                       |   |



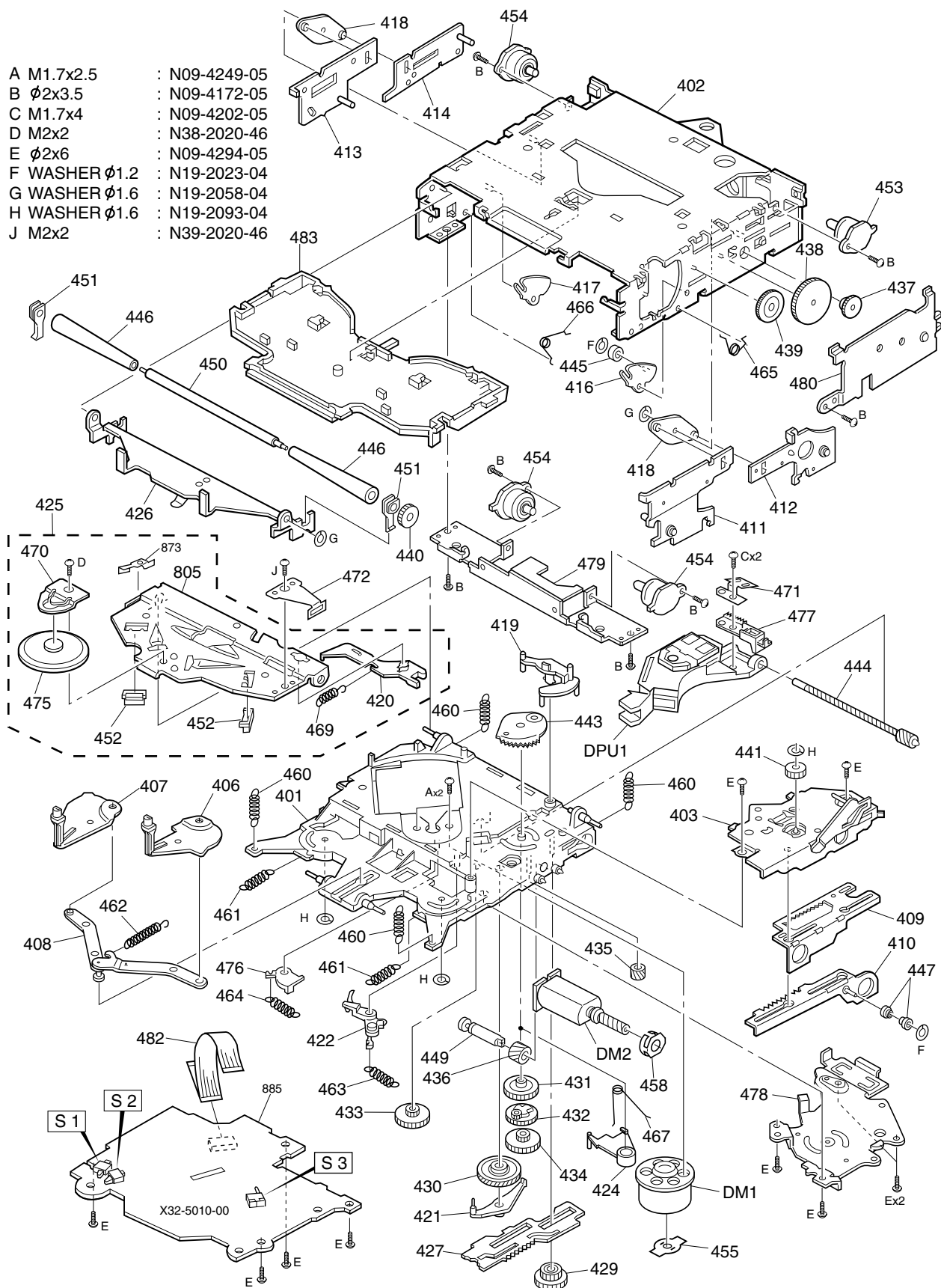




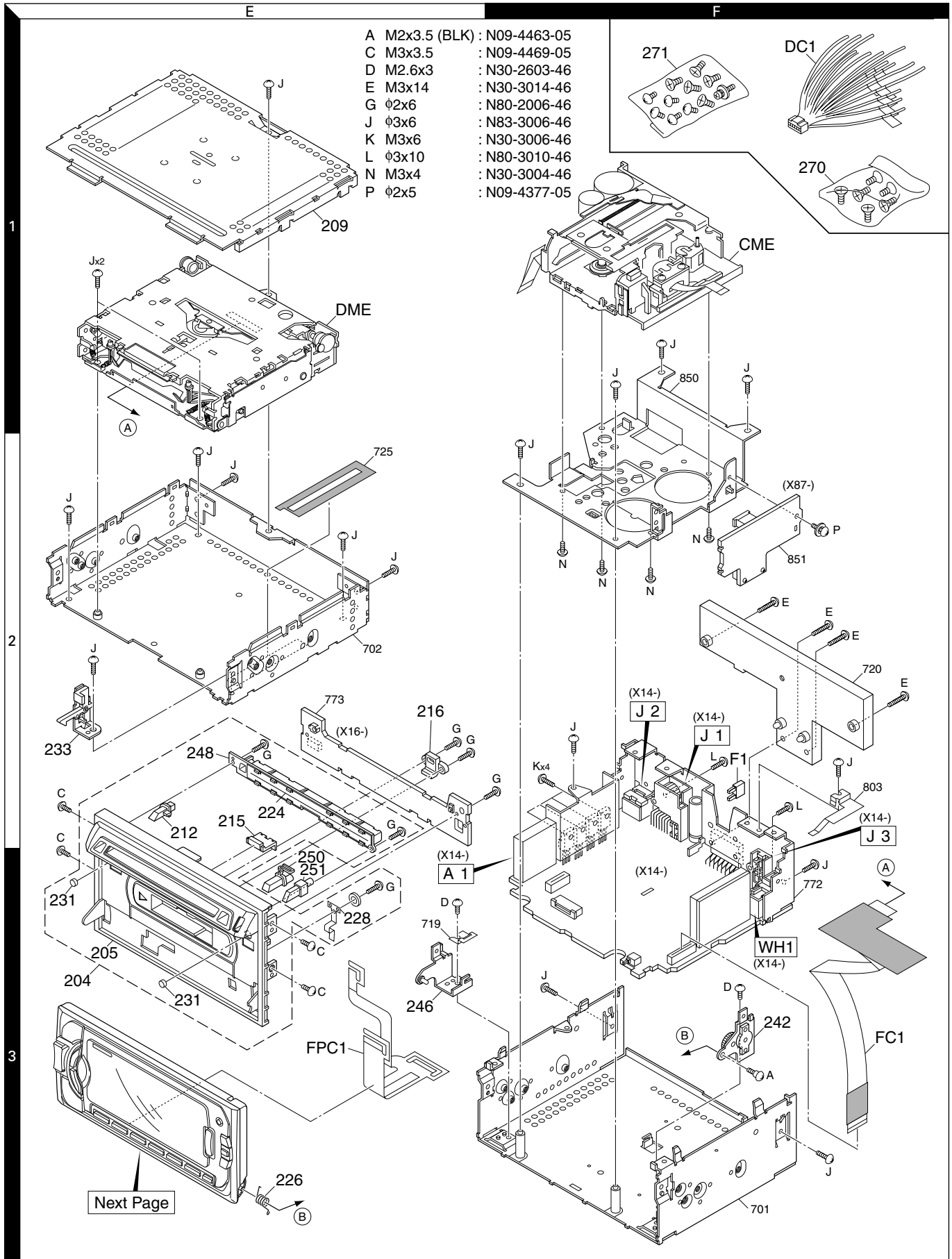
# DPX-4020

## EXPLODED VIEW (CD MECHANISM ASSY)

- |   |             |   |             |
|---|-------------|---|-------------|
| A | M1.7x2.5    | : | N09-4249-05 |
| B | Ø2x3.5      | : | N09-4172-05 |
| C | M1.7x4      | : | N09-4202-05 |
| D | M2x2        | : | N38-2020-46 |
| E | Ø2x6        | : | N09-4294-05 |
| F | WASHER Ø1.2 | : | N19-2023-04 |
| G | WASHER Ø1.6 | : | N19-2058-04 |
| H | WASHER Ø1.6 | : | N19-2093-04 |
| J | M2x2        | : | N39-2020-46 |

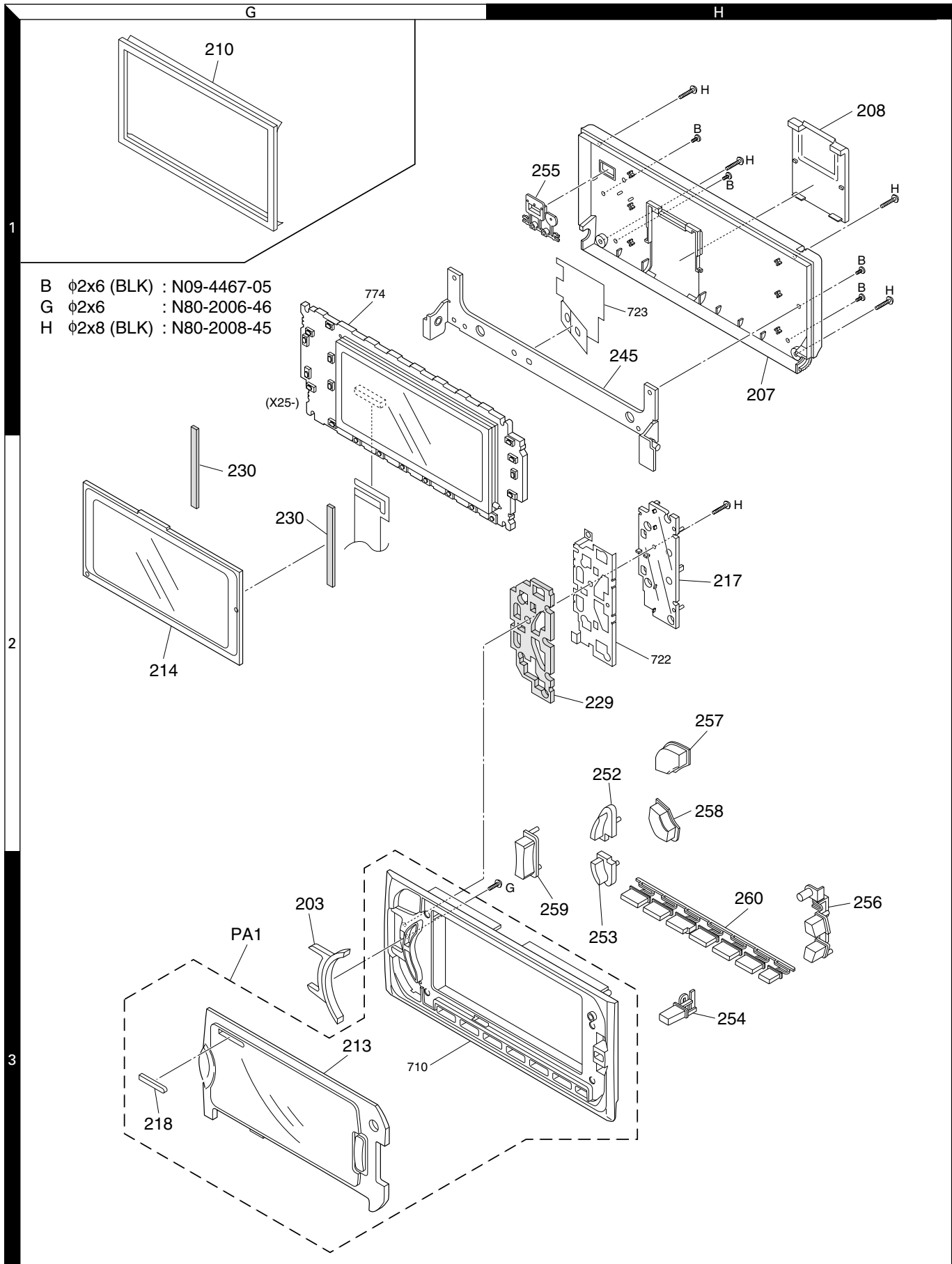


## EXPLODED VIEW (UNIT)



# DPX-4020

## EXPLODED VIEW (DISPLAY)



## PARTS LIST

## \* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
<b>DPX-4020</b>					
203	3G	*	A21-4102-02	DRESSING PANEL	
204	3E		A22-2899-02	SUB PANEL ASSY	K1
204	3E	*	A22-2900-02	SUB PANEL ASSY	M1
205	3E	*	A22-2903-01	SUB PANEL	K1
205	3E	*	A22-2904-01	SUB PANEL	M1
207	1H		A46-1720-01	REAR COVER	M1
207	1H	*	A46-1721-01	REAR COVER	K1
208	1H		A46-1724-03	REAR COVER	M1
208	1H	*	A46-1725-03	REAR COVER	K1
209	1E		A52-0791-02	TOP PLATE	
PA1	3G	*	A64-2383-02	PANEL ASSY	K1
PA1	3G	*	A64-2384-02	PANEL ASSY	M1
RM1	1G		A70-0894-05	REMOTE CONTROLLER ASSY	
210	1G	*	B07-3046-04	ESCUTCHEON ASSY	
210	1G	*	B07-3047-04	ESCUTCHEON ASSY	K1
212	2E		B10-4060-03	FRONT GLASS	
213	3G	*	B10-4063-01	FRONT GLASS	K1
213	3G	*	B10-4064-01	FRONT GLASS	M1
214	2G		B10-4065-03	FRONT GLASS	
215	2E		B19-2089-03	LIGHTING BOARD	
216	2E		B19-2090-03	LIGHTING BOARD	
217	2H		B19-2091-03	LIGHTING BOARD	
218	3G		B43-1284-04	BADGE	
-			B46-0100-50	WARRANTY CARD	
-		*	B64-1941-00	INSTRUCTION MANUAL EFSP	K1
-		*	B64-1942-00	INSTRUCTION MANUAL ET	M1
-		*	B64-1943-00	INSTRUCTION MANUAL K	M1
-		*	B64-2037-00	INSTRUCTION MANUAL A	M1
△ DC1	1F		E30-4939-05	DC CORD	
FC1	3F		E39-0413-05	FLAT CABLE	
224	2E		F19-1378-03	BLIND PLATE	
△ F1	2F		F52-0011-05	FUSE(MINI BLADE TYPE)	
226	3E		G01-3082-04	TORSION COIL SPRING	
228	3E		G02-1409-04	FLAT SPRING	
229	2H		G11-1941-03	CUSHION	
230	2G		G11-1944-04	CUSHION	
231	3E		G13-1251-04	CUSHION	
-			H10-4778-02	POLYSTYRENE FOAMED FIXTURE	
-			H11-1525-04	POLYSTYRENE FOAMED BOARD	
-			H12-2694-03	PACKING FIXTURE	
-			H13-2009-04	CARTON BOARD	
-			H25-0334-04	PROTECTION BAG (125X250X0.03)	K1
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1164-04	PROTECTION BAG (0.5X350X480)	
-			H25-1170-04	PROTECTION BAG	
-		*	H54-2092-03	ITEM CARTON CASE	K1
-		*	H54-2093-03	ITEM CARTON CASE	M1
233	2E		J19-5076-04	BRACKET ASSY	
235	1G	*	J19-5121-04	BRACKET ASSY	K1
242	3F		J21-9727-04	MOUNTING HARDWARE ASSY	
245	1H		J21-9731-03	MOUNTING HARDWARE ASSY	
246	3E		J21-9756-04	MOUNTING HARDWARE ASSY	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
248 FPC1	2E 3E		J90-1011-02 J84-0131-05	GUIDE FLEXIBLE PRINTED WIRING BOARD	
250	2E		K24-3716-03	KNOB CD EJ	M1
250	2E	*	K24-3717-03	KNOB CD EJ	K1
251	2E	*	K24-3721-03	KNOB OPEN	K1
251	2E	*	K24-3722-03	KNOB OPEN	M1
252	3H		K24-3724-03	KNOB DSP	
253	3H		K24-3726-03	KNOB EQ	
254	3H		K24-3728-03	KNOB SA	
255	1H		K25-1288-03	KNOB C EJ	
256	3H	*	K25-1290-02	KNOB SRC	M1
256	3H	*	K25-1291-02	KNOB SRC	K1
257	2H		K25-1294-02	KNOB SEEK	
258	3H		K25-1298-02	KNOB FM	
259	3H		K25-1302-03	KNOB VOL	
260	3H		K25-1308-02	KNOB 1-6	M1
260	3H	*	K25-1308-02	KNOB 1-6	K1
270	1F		N99-1711-05	SCREW SET	K1
271	1F		N99-1701-05	SCREW SET	M1
A	3F		N09-4463-05	MACHINE SCREW	
B	1H		N09-4467-05	MACHINE SCREW	
C	3F		N09-4469-05	MACHINE SCREW (M2.6X3.5)	
D	3E		N30-2603-46	PAN HEAD MACHINE SCREW	
E	2F		N30-3014-46	PAN HEAD MACHINE SCREW	
G	2E		N80-2006-46	PAN HEAD TAPTITE SCREW	
H	1H		N80-2008-45	PAN HEAD TAPTITE SCREW	
J	2E		N83-3006-46	PAN HEAD TAPTITE SCREW	
CME	1F		D40-1167-05	MECHANISM ASSY	
DME	1E		X92-4130-00	MECHANISM ASSY	
<b>SYNTHESIZER UNIT (X14-6710-XX)</b>					
C1			CK73GB1H103K	CHIP C 0.010UF	K
C2			CE04DW1C100M	ELECTRO 10UF	16WV
C3			CK73GB1H103K	CHIP C 0.010UF	K
C4			CE04DW1C100M	ELECTRO 10UF	16WV
C5			CK73GB1H103K	CHIP C 0.010UF	K
C6			CE04DW1A101M	ELECTRO 100UF	10WV
C7 -9			CK73GB1C104K	CHIP C 0.10UF	K
C10			CE04DW1C100M	ELECTRO 10UF	16WV
C11			CK73GB1C104K	CHIP C 0.10UF	K
C12			CE04DW1A101M	ELECTRO 100UF	10WV
C15			CC73GCH1H101J	CHIP C 100PF	J
C16			CK73GB1H103K	CHIP C 0.010UF	K
C17			CC73GCH1H100D	CHIP C 10PF	D
C104			CK73GB1H103K	CHIP C 0.010UF	K
C105			CE04DW1C470M	ELECTRO 47UF	16WV
C106-108			CK73GB1H103K	CHIP C 0.010UF	K
C109			CE04DW1C100M	ELECTRO 10UF	16WV
C110-112			CK73GB1H103K	CHIP C 0.010UF	K
C201			CE04NW1HR47M	ELECTRO 0.47UF	50WV
C203-206			CK73FB1H104K	CHIP C 0.10UF	K
C207,208			CE04DW1H010M	ELECTRO 1.0UF	50WV
C209			CK73FB1C105K	CHIP C 1.0UF	K
C210			CE04DW1HR22M	ELECTRO 0.22UF	50WV
C211		*	CE04NW1HR22MEL	ELECTRO 0.22UF	50W



## PARTS LIST

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## SYNTHESIZER UNIT (X14-6710-XX)

Ref. No.	A d d	N e w	Parts No.	Description	Dest ination
C212,213 C214 C215 C216 C217			C90-5297-05 CE04DW1C220M CK73GB1H222K CE04DW1C220M CK73GB1H222K	NP-ELECT 0.22UF 50WV ELECTRO 22UF 16WV CHIP C 2200PF K ELECTRO 22UF 16WV CHIP C 2200PF K	
C301 C302 C303-306 C307,308 C309			CE04NW1HR47M CE04NW0J470M CK73FB1H104K CE04DW1H010M CK73FB1C105K	ELECTRO 0.47UF 50WV ELECTRO 47UF 6.3WV CHIP C 0.10UF K ELECTRO 1.0UF 50WV CHIP C 1.0UF K	
C310 C311 C312,313 C314 C315		*	CE04DW1HR22M CE04NW1HR22MEL C90-5297-05 CE04DW1C220M CK73GB1H222K	ELECTRO 0.22UF 50WV ELECTRO 0.22UF 50WV NP-ELECT 0.22UF 50WV ELECTRO 22UF 16WV CHIP C 2200PF K	
C316 C317 C401 C402 C403			CE04DW1C220M CK73GB1H222K CK73GB1H153K CK73GB1E333K CK73FB1C474K	ELECTRO 22UF 16WV CHIP C 2200PF K CHIP C 0.015UF K CHIP C 0.033UF K CHIP C 0.47UF K	
C404 C405,406 C407 C408 C409			CC73GCH1H151J CK73GB1C104K CK73GB1H103K CE04DW1A470M CE04DW1H2R2M	CHIP C 150PF J CHIP C 0.10UF K CHIP C 0.010UF K ELECTRO 47UF 10WV ELECTRO 2.2UF 50WV	
C410 C411 C414 C415 C416			CK73GB1H103K CE04DW1H010M CK73GB1H103K CE04DW1H010M CK73GB1A474K	CHIP C 0.010UF K ELECTRO 1.0UF 50WV CHIP C 0.010UF K ELECTRO 1.0UF 50WV CHIP C 0.47UF K	
C417 C418 C419 C420 C421			CK73GB1E223K C90-2680-05 CK73GB1C104K CK73EB1E105K CK73GB1E223K	CHIP C 0.022UF K ELECTRO 22UF 16WV CHIP C 0.10UF K CHIP C 1.0UF K CHIP C 0.022UF K	
C422,423 C501 C502 C503-505 C506			CK73FB1H104K CK73GB1C104K CE04DW1A101M CK73GB1C104K CK73GB1A224K	CHIP C 0.10UF K CHIP C 0.10UF K ELECTRO 100UF 10WV CHIP C 0.10UF K CHIP C 0.22UF K	△
C507 C508 C509,510 C511 C512			CK73GB1H472K CK73GB1H102K CK73GB1C683K CK73GB1H472K CK73GB1H102K	CHIP C 4700PF K CHIP C 1000PF K CHIP C 0.068UF K CHIP C 4700PF K CHIP C 1000PF K	
C513 C514 C515 C516 C517			CK73GB1A224K CE04DW1A221M CE04DW1H2R2M CK73GB1A154K CK73GB0J105K	CHIP C 0.22UF K ELECTRO 220UF 10WV ELECTRO 2.2UF 50WV CHIP C 0.15UF K CHIP C 1.0UF K	
C601 C602 C603,604 C605,606 C607			CK73GB1H472K CK73GB1E223K CC73GCH1H150J CK73GB1H103K CK73GB1H122K	CHIP C 4700PF K CHIP C 0.022UF K CHIP C 15PF J CHIP C 0.010UF K CHIP C 1200PF K	

Ref. No.	A d d	N e w	Parts No.	Description	Dest ination
C608 C609,610 C611-614 C616 C701			CK73GB1C104K CK73GB1E223K CK73GB1H103K CE04DW1A101M C90-2855-05	CHIP C 0.10UF K CHIP C 0.022UF K CHIP C 0.010UF K ELECTRO 100UF 10WV ELECTRO 4700UF 16WV	
C702 C703,704 C705 C706 C708			CK73GB1C104K CK73GB1H223K CK73FB1H104K CE04DW1H010M CE04DW1H3R3M	CHIP C 0.10UF K CHIP C 0.022UF K CHIP C 0.10UF K ELECTRO 1.0UF 50WV ELECTRO 3.3UF 50WV	
C709 C710 C711 C712 C713			CK73GB1C683K CE04DW1H0R1M C90-2694-05 CK73GB1H103K C90-2759-05	CHIP C 0.068UF K ELECTRO 0.1UF 50WV ALMINIUM ELECTROLYTIC C. CHIP C 0.010UF K ELECTRO 10UF 16WV	
C714 C715 C716,717 C718 C719			CK73FB1C105K C90-2673-05 CK73GB1C104K C90-2672-05 CK73GB1H103K	CHIP C 1.0UF K ELECTRO 220UF 10WV CHIP C 0.10UF K ELECTRO 100UF 10WV CHIP C 0.010UF K	
C721 C801,802 C803,804 C901 C902			CE04DW1A470M CK73FB1H104K CK73EB1E105K CE04DW1H2R2M CK73GB1H223K	ELECTRO 47UF 10WV CHIP C 0.10UF K CHIP C 1.0UF K ELECTRO 2.2UF 50WV CHIP C 0.022UF K	
C903 C904 C905 C906 C907			C90-2986-05 C90-2982-05 CK73GB1C104K CK73GB1H103K C90-2979-05	ELECTRO 10UF 50WV ELECTRO 100UF 16WV CHIP C 0.10UF K CHIP C 0.010UF K ELECTRO 100UF 50WV	
C908			CK73GB1H103K	CHIP C 0.010UF K	
CN1 CN2 CN4 CN5 J1			E41-0139-05 E40-9735-15 E40-5036-05 E40-5451-05 E58-0863-15	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY RECTANGULAR RECEPTACLE	
J2 J3 WH1			E56-0834-05 E63-0853-05 E04-0312-05	CYLINDRICAL RECEPTACLE PIN JACK RF COAXIAL CABLE RECEPTACLE	
L1 L2 -6 L2 -6 L7 L8			L33-1123-05 L40-4795-34 L40-4795-68 L33-1816-05 L40-4795-34	LINE FILTER COIL SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(4.7UH) SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR	
L8 L401 L401 L501 L501			L40-4795-68 L40-4795-34 L40-4795-68 L40-4795-34 L40-4795-68	SMALL FIXED INDUCTOR(4.7UH) SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(4.7UH) SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(4.7UH)	
L601 L601 L701 L901 X1			L40-4795-34 L40-4795-68 L33-1170-05 L33-1029-05 L77-2788-05	SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(4.7UH) CHOKE COIL ASSY SMALL FIXED INDUCTOR CRYSTAL RESONATOR	

## PARTS LIST

\* New Parts

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## SYNTHESIZER UNIT (X14-6710-XX)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
CP11			R90-0726-05	MULTI-COMP 10K X2	
CP41			R90-1019-05	MULTI-COMP 100 X2	
CP51			R90-0724-05	MULTI-COMP 1K X4	
CP60			R90-0722-05	MULTI-COMP 2.2K X4	
CP61			R90-0726-05	MULTI-COMP 10K X2	
CP62			R90-0722-05	MULTI-COMP 2.2K X4	
CP63			R90-0718-05	MULTI-COMP 4.7K X4	
CP64			R90-1019-05	MULTI-COMP 100 X2	
CP65			R90-1014-05	MULTI-COMP 100 X4	
CP66,67			R90-1013-05	MULTI-COMP 2.2K X2	
CP68			R90-0718-05	MULTI-COMP 4.7K X4	
CP69			R90-1016-05	MULTI-COMP 470 X4	
R1 ,2			RK73GB1J101J	CHIP R 100 J 1/16W	
R3			RK73GB1J471J	CHIP R 470 J 1/16W	
R4			RK73GB1J223J	CHIP R 22K J 1/16W	
R5			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R6			RK73GB1J223J	CHIP R 22K J 1/16W	
R7			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R104			RK73GB1J121J	CHIP R 120 J 1/16W	
R105			R92-0365-05	CHIP R 1.0K J 1/2W	
R106			RK73FB2A223J	CHIP R 22K J 1/10W	
R107			RK73GB1J101J	CHIP R 100 J 1/16W	
R108			RK73FB2A681J	CHIP R 680 J 1/10W	
R109,110			RK73GB1J101J	CHIP R 100 J 1/16W	
R111			RS14KB3A100J	FL-PROOF RS10 J 1W	
R201			RK73EB2B100J	CHIP R 10 J 1/8W	
R203,204			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R205			RK73FB2A471J	CHIP R 470 J 1/10W	
R206			RK73FB2A473J	CHIP R 47K J 1/10W	
R207			RK73FB2A101J	CHIP R 100 J 1/10W	
R208			RK73FB2A471J	CHIP R 470 J 1/10W	
R209			RK73FB2A473J	CHIP R 47K J 1/10W	
R210			RK73FB2A101J	CHIP R 100 J 1/10W	
R211,212			RK73GB1J223J	CHIP R 22K J 1/16W	
R301			RK73EB2B100J	CHIP R 10 J 1/8W	
R302			RK73EB2B4R7J	CHIP R 4.7 J 1/8W	
R303,304			RK73FB2A682J	CHIP R 6.8K J 1/10W	
R305			RK73FB2A471J	CHIP R 470 J 1/10W	
R306			RK73FB2A473J	CHIP R 47K J 1/10W	
R307			RK73FB2A101J	CHIP R 100 J 1/10W	
R308			RK73FB2A471J	CHIP R 470 J 1/10W	
R309			RK73FB2A473J	CHIP R 47K J 1/10W	
R310			RK73FB2A101J	CHIP R 100 J 1/10W	
R311,312			RK73GB1J223J	CHIP R 22K J 1/16W	
R401			RK73GB1J272J	CHIP R 2.7K J 1/16W	
R402,403			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R407,408			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R409			RK73GB1J104J	CHIP R 100K J 1/16W	
R410			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R411			RK73GB1J303J	CHIP R 30K J 1/16W	
R412			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R413			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R414			RK73GB1J101J	CHIP R 100 J 1/16W	
R415			RK73GB1J103J	CHIP R 10K J 1/16W	
R501			RK73GB1J100J	CHIP R 10 J 1/16W	
R502			RK73GB1J223J	CHIP R 22K J 1/16W	
R506,507			RK73GB1J473J	CHIP R 47K J 1/16W	
R508			RK73GB1J104J	CHIP R 100K J 1/16W	
R601			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R602,603			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R604			RK73GB1J104J	CHIP R 100K J 1/16W	
R605,606			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R609			RK73GB1J471J	CHIP R 470 J 1/16W	
R610			RK73GB1J105J	CHIP R 1.0M J 1/16W	
R611,612			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R613			RK73GB1J473J	CHIP R 47K J 1/16W	
R614			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R618			RK73GB1J104J	CHIP R 100K J 1/16W	
R620			RK73GB1J104J	CHIP R 100K J 1/16W	
R621			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R623			RK73GB1J101J	CHIP R 100 J 1/16W	
R625,626			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R627			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R628			RK73GB1J104J	CHIP R 100K J 1/16W	
R629			RK73GB1J101J	CHIP R 100 J 1/16W	
R630			RK73GB1J104J	CHIP R 100K J 1/16W	
R631			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R632			RK73GB1J473J	CHIP R 47K J 1/16W	
R634			RK73GB1J473J	CHIP R 47K J 1/16W	
R636			RK73GB1J473J	CHIP R 47K J 1/16W	
R640,641			RK73GB1J103J	CHIP R 10K J 1/16W	
R644			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R645			RK73EB2B222J	CHIP R 2.2K J 1/8W	
R647			RK73GB1J473J	CHIP R 47K J 1/16W	K1
R647,648			RK73GB1J473J	CHIP R 47K J 1/16W	M1
R649			RK73GB1J473J	CHIP R 47K J 1/16W	K1
R650-652			RK73GB1J104J	CHIP R 100K J 1/16W	
R653			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R654			RK73GB1J473J	CHIP R 47K J 1/16W	
R657			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R658,659			RK73GB1J471J	CHIP R 470 J 1/16W	
R664,665			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R668			RK73GB1J471J	CHIP R 470 J 1/16W	
R669			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R670			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R672			RK73GB1J103J	CHIP R 10K J 1/16W	
R673			RK73GB1J223J	CHIP R 22K J 1/16W	
R674			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R675			RK73FB2A471J	CHIP R 470 J 1/10W	
R676			RK73GB1J104J	CHIP R 100K J 1/16W	
R677,678			RK73GB1J473J	CHIP R 47K J 1/16W	
R679			RK73GB1J471J	CHIP R 470 J 1/16W	
R680			RK73GB1J104J	CHIP R 100K J 1/16W	
R682,683			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R684			RK73GB1J471J	CHIP R 470 J 1/16W	
R685			RK73GB1J104J	CHIP R 100K J 1/16W	
R686			RK73GB1J471J	CHIP R 470 J 1/16W	
R687			RK73GB1J104J	CHIP R 100K J 1/16W	
R688			RK73GB1J471J	CHIP R 470 J 1/16W	
R701			RK73GB1J183J	CHIP R 18K J 1/16W	

PARTS LIST

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SYNTHESIZER UNIT (X14-6710-XX)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
R702			RK73GB1J223J	CHIP R 22K J 1/16W	
R703			RK73GB1J153J	CHIP R 15K J 1/16W	
R704			RK73EB2B332J	CHIP R 3.3K J 1/8W	
R705			RK73GB1J223J	CHIP R 22K J 1/16W	
R706			RK73GB1J103J	CHIP R 10K J 1/16W	
R707			RK73EB2B103J	CHIP R 10K J 1/8W	
R708			RK73GB1J104J	CHIP R 100K J 1/16W	
R710			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R711			RK73FB2A561J	CHIP R 560 J 1/10W	
R712			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R713			R92-0365-05	CHIP R 1.0K J 1/2W	
R714			RK73FB2A223J	CHIP R 22K J 1/10W	
R715			R92-0365-05	CHIP R 1.0K J 1/2W	
R716			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R717			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R718,719			R92-0365-05	CHIP R 1.0K J 1/2W	
R720			RK73FB2A153J	CHIP R 15K J 1/10W	
R721			RK73FB2A101J	CHIP R 100 J 1/10W	
R722			RK73FB2A221J	CHIP R 220 J 1/10W	
R723			RK73GB1J153J	CHIP R 15K J 1/16W	
R724			RK73GB1J243J	CHIP R 24K J 1/16W	
R725			RK73GB1J432J	CHIP R 4.3K J 1/16W	
R726			RK73FB2A331J	CHIP R 330 J 1/10W	
R727			RK73EB2B821J	CHIP R 820 J 1/8W	
R728			RK73GB1J104J	CHIP R 100K J 1/16W	
R730			RK73EB2B621J	CHIP R 620 J 1/8W	
R732			R92-3295-05	METAL GLAZE RESISTOR	
R801			RK73EB2B101J	CHIP R 100 J 1/8W	
R802-804			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R805-808			RK73EB2B101J	CHIP R 100 J 1/8W	
R901			RK73EB2B152J	CHIP R 1.5K J 1/8W	
R902			RK73EB2B471J	CHIP R 470 J 1/8W	
R903			RK73EB2B223J	CHIP R 22K J 1/8W	
W36			R92-2052-05	CHIP R 0 J 1/10W	
W39			R92-1252-05	CHIP R 0 OHM	
S1			S68-0823-05	PUSH SWITCH	
D1			HZM5.6N(B2)	ZENER DIODE	
D1			MA3056-M	ZENER DIODE	
D101			D1F60	DIODE	
D101			1SR154-400	DIODE	
D102			02CZ4.3-X	ZENER DIODE	
D201			HZM6.8N	ZENER DIODE	
D201			MA3068	ZENER DIODE	
D203			D1F60	DIODE	
D203			1SR154-400	DIODE	
D204-206			AM01Z	DIODE	
D204-206			1SR139-400	DIODE	
D301,302			HZM6.8N	ZENER DIODE	
D301,302			MA3068	ZENER DIODE	
D303-305			AM01Z	DIODE	
D303-305			1SR139-400	DIODE	
D306			D1F60	DIODE	
D306			1SR154-400	DIODE	
D401-404			DAP202U	DIODE	
Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
D401-404			MA142WA	DIODE	
D405			DAN202U	DIODE	
D405			MA142WK	DIODE	
D601,602			DAP202U	DIODE	
D601,602			MA142WA	DIODE	
D701			RM10ZLF	DIODE	
D702			MA8068-M	ZENER DIODE	
D703			02CZ11-X	ZENER DIODE	
D704			HZM6.8N(B2)	ZENER DIODE	
D704			MA3068-M	ZENER DIODE	
D705			DAN217	DIODE	
D706			HZM5.6N(B2)	ZENER DIODE	
D706			MA3056-M	ZENER DIODE	
D707			M1F60	DIODE	
D708			AM01Z	DIODE	
D708			1SR139-400	DIODE	
D709			DAN202K	DIODE	
D709			MA152WA	DIODE	
D710			M1F60	DIODE	
D711,712			AM01Z	DIODE	
D711,712			1SR139-400	DIODE	
D713			MA8056-M	ZENER DIODE	
D714			02CZ5.6-Y	ZENER DIODE	
D715			02CZ7.5-X	ZENER DIODE	
D801			FTZ6.8E	ZENER DIODE	
D801			HZM6.8FA	ZENER DIODE	
D802			HZM6.8WA	ZENER DIODE	
D802			MA3068WA	ZENER DIODE	
D802			STZ6.8N	ZENER DIODE	
D803			FTZ6.8E	ZENER DIODE	
D803			HZM6.8FA	ZENER DIODE	
D901			02CZ18-Y	ZENER DIODE	
D902			RD6.2F(B2)	ZENER DIODE	
IC1			MN101C15FCP	MI-COM IC	
IC2			TDA7407	ANALOGUE IC	
IC3			TC4066BF	MOS-IC	
IC3			TC4066BF(N)	MOS-IC	
IC4			M65849BFP	MOS-IC	
IC5			BA3129F	IC(SWITCH)	
IC7			TA8263BH	ANALOGUE IC	
IC8			LB1641	IC(MOTOR DRIVER)	
IC9			PST9135NR	ANALOGUE IC	
IC10			TC7W02FU	MOS-IC	
IC11			M5237ML	IC(VOLTAGE REGULATOR)	
Q1			2SC4081	TRANSISTOR	
Q2 ,3			CPH3105	TRANSISTOR	
Q4			FMG1A	DIGITAL TRANSISTOR	
Q101			2SB1443	TRANSISTOR	
Q102			DTC144EK	DIGITAL TRANSISTOR	
Q102			UN2213	DIGITAL TRANSISTOR	
Q201,202			DTC143TK	DIGITAL TRANSISTOR	
Q201,202			UN2216	DIGITAL TRANSISTOR	
Q301,302			DTC143TK	DIGITAL TRANSISTOR	
Q301,302			UN2216	DIGITAL TRANSISTOR	
Q401			DTC124EUA	DIGITAL TRANSISTOR	

## PARTS LIST

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## SYNTHESIZER UNIT (X14-6710-XX)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
Q401			UN5212	DIGITAL TRANSISTOR	
Q402			FMC2A	DIGITAL TRANSISTOR	
Q403,404			DTC144EUA	DIGITAL TRANSISTOR	
Q403,404			UN5213	DIGITAL TRANSISTOR	
Q405-407			DTA114EUA	DIGITAL TRANSISTOR	
Q405-407			UN5111	DIGITAL TRANSISTOR	
Q601			DTC114YUA	DIGITAL TRANSISTOR	
Q601			UN5114	DIGITAL TRANSISTOR	
Q602			DTA124EUA	DIGITAL TRANSISTOR	
Q602			UN5112	DIGITAL TRANSISTOR	
Q701			DTC144EUA	DIGITAL TRANSISTOR	
Q701			UN5213	DIGITAL TRANSISTOR	
Q702			FMW1	TRANSISTOR	
Q703			DTC144EUA	DIGITAL TRANSISTOR	
Q703			UN5213	DIGITAL TRANSISTOR	
Q705			DTA124EUA	DIGITAL TRANSISTOR	
Q705			UN5112	DIGITAL TRANSISTOR	
Q706			2SB1277(Q,R)	TRANSISTOR	
Q707			2SA1037K	TRANSISTOR	
Q708			DTA124EUA	DIGITAL TRANSISTOR	
Q708			UN5112	DIGITAL TRANSISTOR	
Q709			DTC114YUA	DIGITAL TRANSISTOR	
Q709			UN5114	DIGITAL TRANSISTOR	
Q710			2SB1277(Q,R)	TRANSISTOR	
Q711			DTC114YUA	DIGITAL TRANSISTOR	
Q711			UN5114	DIGITAL TRANSISTOR	
Q712			2SB1548(P)	TRANSISTOR	
Q713			2SC4081	TRANSISTOR	
Q714			IMD16A	TRANSISTOR	
Q715			FMC2A	DIGITAL TRANSISTOR	
Q716			2SB1548(P)	TRANSISTOR	
Q717			2SD1766	TRANSISTOR	
Q718			FMC2A	DIGITAL TRANSISTOR	
Q720			2SC4081	TRANSISTOR	
Q724			2SB1548(P)	TRANSISTOR	
Q901			FMC3A	DIGITAL TRANSISTOR	
Q902			2SB1446	TRANSISTOR	
Q903			2SC4081	TRANSISTOR	
TH1			PTH9C32BB471Q	POSITIVE RESISTOR	
A1			W02-3283-05	ELECTRIC CIRCUIT MODULE	
A2			X86-3280-11	TUNER UNIT	
<b>SUB CIRCUIT UNIT (X16-1250-00)</b>					
D1 ,2			B30-1575-05	LED(1608,YG)	
C1			CK73GB1C104K	CHIP C 0.10UF K	
CN1			E41-0131-05	FLAT CABLE CONNECTOR	
R1			RK73EB2B391J	CHIP R 390 J 1/8W	
R2			RK73FB2A220J	CHIP R 22 J 1/10W	
R3			RK73GB1J102J	CHIP R 1.0K J 1/16W	
S1			S70-0873-05	TACT SWITCH	
IC1			SBX3050-02	ANALOGUE IC	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
<b>SWITCH UNIT (X25-8970-00)</b>					
D6 ,7			B30-1564-05	LED(1608,BLUE)	
D8			B30-1575-05	LED(1608,YG)	
C1			C92-1430-05	CHIP C 22UF 16WV	
C2			CK73GB1E223K	CHIP C 0.022UF K	
C3			CK73GB1H153K	CHIP C 0.015UF K	
C4			CK73GB1E223K	CHIP C 0.022UF K	
C5			CC73GCH1H101J	CHIP C 100PF J	
C6			CK73FB1A225K	CHIP C 2.2UF K	
C7			CK73FB1A105K	CHIP C 1.0UF K	
C8			CC73GCH1H100D	CHIP C 10PF D	
C9			C92-1430-05	CHIP C 22UF 16WV	
C10			CK73GB1H103K	CHIP C 0.010UF K	
C11			C92-1359-05	CHIP-TAN 10UF 16WV	
C12 ,13			CC73GCH1H100D	CHIP C 10PF D	
C14			CK73GB1C104K	CHIP C 0.10UF K	
C16 ,17			CK73GB1H103K	CHIP C 0.010UF K	
CN1			E40-9459-05	FLAT CABLE CONNECTOR	
L1			L40-4795-68	SMALL FIXED INDUCTOR(4.7UH)	
L2			L92-0332-05	CHIP FERRITE	
X1			L78-0842-05	RESONATOR	
CP1			R90-0737-05	MULTI-COMP 100K X2	
CP2			R90-0725-05	MULTI-COMP 1K X2	
CP3			R90-0720-05	MULTI-COMP 100K X4	
CP4			R90-0724-05	MULTI-COMP 1K X4	
CP5			R90-0720-05	MULTI-COMP 100K X4	
CP6			R90-0725-05	MULTI-COMP 1K X2	
CP7			R90-0724-05	MULTI-COMP 1K X4	
CP8			R90-0725-05	MULTI-COMP 1K X2	
CP9			R90-0724-05	MULTI-COMP 1K X4	
R1 ,2			R92-2565-05	METAL GLAZE RESISTOR	
R3			RK73EB2B471J	CHIP R 470 J 1/8W	
R4 -9			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R10			RK73GB1J104J	CHIP R 100K J 1/16W	
R11			RK73GB1J223J	CHIP R 22K J 1/16W	
R12			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R14 -17			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R18			RK73EB2B270J	CHIP R 27 J 1/8W	
R19			RK73FB2A473J	CHIP R 47K J 1/10W	
R20			RK73GB1J223J	CHIP R 22K J 1/16W	
R21			RK73GB1J2R2J	CHIP R 2.2 J 1/16W	
R22			RK73GB1J473J	CHIP R 47K J 1/16W	
R23			RK73GB1J104J	CHIP R 100K J 1/16W	
R24			RK73GB1J473J	CHIP R 47K J 1/16W	
R25 ,26			RK73GB1J224J	CHIP R 220K J 1/16W	
R27			RK73GB1J244J	CHIP R 240K J 1/16W	
R28			RK73GB1J272J	CHIP R 2.7K J 1/16W	
R29			RK73GB1J104J	CHIP R 100K J 1/16W	
S1			S70-0873-05	TACT SWITCH	
S2			S70-0841-05	TACT SWITCH	
S3 ,4			S70-0873-05	TACT SWITCH	
S5			S70-0841-05	TACT SWITCH	

PARTS LIST

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Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
S6 ,7 S8 S9 ,10 S11 ,12 S13 -15			S70-0873-05 S70-0841-05 S70-0873-05 S70-0841-05 S70-0873-05	TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH	
S16 S17 S18 S19 ,20 S21			S70-0841-05 S70-0842-05 S70-0841-05 S70-0869-05 S70-0842-05	TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH	
D1 -5 D1 -5 D9 D9 D10 ,11			DAN202U MA152WA DAN202U MA152WA HZM5.6N(B2)	DIODE DIODE DIODE DIODE ZENER DIODE	
D10 ,11 ED1 IC1 IC2 Q1			MA3056-M CN2003M MN101C10AAL BA3830F DTC114EUA	ZENER DIODE FLUORESCENT INDICATOR TUBE MI-COM IC ANALOGUE IC DIGITAL TRANSISTOR	
Q1 Q2 Q3 Q4 Q5			UN5211 2SK3018 UMC3N FMC4A DTC114EUA	DIGITAL TRANSISTOR FETO TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q5			UN5211	DIGITAL TRANSISTOR	
CD PLAYER UNIT (X32-5010-00)					
C1 ,2 C3 C4 C5 C6			CK73FB1C105K CK73FB0J475K C92-0566-05 CC73GCH1H150J CC73GCH1H020C	CHIP C 1.0UF K CHIP C 4.7UF K CHIP-TAN 10UF 6.3WV CHIP C 15PF J CHIP C 2.0PF C	
C7 C8 C10 C11 C12			CK73GB1C104K CK73FB1C105K CK73GB1H472K CK73GB1H682K CK73GB1H332K	CHIP C 0.10UF K CHIP C 1.0UF K CHIP C 4700PF K CHIP C 6800PF K CHIP C 3300PF K	
C13 C14 C15 C16 C17			CK73GB1C333K CK73GB1H472K CK73GB1C473K CC73GCH1H151J CK73GB1H472K	CHIP C 0.033UF K CHIP C 4700PF K CHIP C 0.047UF K CHIP C 150PF J CHIP C 4700PF K	
C18 C19 ,20 C21 C23 C24			CC73GCH1H221J CK73GB1C104K CK73FB0J475K CK73GB1H102K CK73GB1E223K	CHIP C 220PF J CHIP C 0.10UF K CHIP C 4.7UF K CHIP C 1000PF K CHIP C 0.022UF K	
C25 C26 C28 C29 C33			CK73GB1H153K CK73GB0J105K CK73GB0J105K CK73GB1C104K CK73GB1C104K	CHIP C 0.015UF K CHIP C 1.0UF K CHIP C 1.0UF K CHIP C 0.10UF K CHIP C 0.10UF K	
C35 C41			CK73GB1C104K CK73EB1C225K	CHIP C 0.10UF K CHIP C 2.2UF K	

SWITCH UNIT (X25-8970-00)					
Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
C43 C45 C46 C55 C68			CK73GB1H153K CK73GB1H153K CK73GB1C473K CK73GB1C104K CK73GB1C104K	CHIP C 0.015UF K CHIP C 0.015U K CHIP C 0.047UF K CHIP C 0.10UF K CHIP C 0.10UF K	
C71 ,72 C77 ,78 C79 ,80 C85 C89			CK73GB1H471K CC73GCH1H680J CK73GB1H222K CK73GB1C104K CK73GB1H222K	CHIP C 470PF K CHIP C 68PF J CHIP C 2200PF K CHIP C 0.10UF K CHIP C 2200PF K	
C90			CK73GB1C104K	CHIP C 0.10UF K	
CN1 CN2 CN2 CN2			E40-9536-05 E40-9339-05 E41-0036-05 E41-0129-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR	
X1			L78-0572-05	RESONATOR (16.93MHZ)	
CP1 -3 R3 R5 R6 R8			R90-1019-05 RK73GB1J272J RK73GB1J361J RK73GB1J272J RK73EB2B4R7J	MULTI-COMP 100 X2 CHIP R 2.7K J 1/16W CHIP R 360 J 1/16W CHIP R 2.7K J 1/16W CHIP R 4.7 J 1/8W	
R9 R10 ,11 R12 R15 R16			RK73EB2B100J RK73GB1J103J RK73GB1J912J RK73GB1J824J RK73GB1J223J	CHIP R 10 J 1/8W CHIP R 10K J 1/16W CHIP R 9.1K J 1/16W CHIP R 820K J 1/16W CHIP R 22K J 1/16W	
R17 R18 R19 R20 R21			RK73GB1J433J RK73GB1J392J RK73GB1J513J RK73GB1J104J RK73GB1J244J	CHIP R 43K J 1/16W CHIP R 3.9K J 1/16W CHIP R 51K J 1/16W CHIP R 100K J 1/16W CHIP R 240K J 1/16W	
R32 R34 R36 R37 R38			RK73GB1J104J RK73GB1J683J RK73GB1J151J RK73GB1J471J RK73GB1J224J	CHIP R 100K J 1/16W CHIP R 68K J 1/16W CHIP R 150 J 1/16W CHIP R 470 J 1/16W CHIP R 220K J 1/16W	
R46 R47 R49 R52 R54			RK73GB1J102J RK73GB1J103J RK73GB1J472J RK73GB1J104J RK73GB1J104J	CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W CHIP R 4.7K J 1/16W CHIP R 100K J 1/16W CHIP R 100K J 1/16W	
R71 R72 R73 R75 R76			RK73GB1J103J RK73GB1J102J RK73GB1J473J RK73GB1J333J RK73GB1J622J	CHIP R 10K J 1/16W CHIP R 1.0K J 1/16W CHIP R 47K J 1/16W CHIP R 33K J 1/16W CHIP R 6.2K J 1/16W	
R77 R78 R81 R82 R83			RK73GB1J563J RK73GB1J243J RK73GB1J333J RK73GB1J123J RK73GB1J102J	CHIP R 56K J 1/16W CHIP R 24K J 1/16W CHIP R 33K J 1/16W CHIP R 12K J 1/16W CHIP R 1.0K J 1/16W	
R102 R104			RK73GB1J332J RK73GB1J562J	CHIP R 3.3K J 1/16W CHIP R 5.6K J 1/16W	

## PARTS LIST

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## CD PLAYER UNIT (X32-5010-00)

Ref. No.	A d d	N e w	Parts No.	Description	Dest ination
R107,108 R117,118 R121,122 R125,126 R202			RK73FB2A331J RK73FB2A203J RK73FB2A203J RK73FB2A203J RK73GB1J104J	CHIP R 330 J 1/10W CHIP R 20K J 1/10W CHIP R 20K J 1/10W CHIP R 20K J 1/10W CHIP R 100K J 1/16W	
R214 R218 R233 R234 R238			RK73GB1J104J RK73GB1J473J RK73GB1J622J RK73GB1J103J RK73FB2A201J	CHIP R 100K J 1/16W CHIP R 47K J 1/16W CHIP R 6.2K J 1/16W CHIP R 10K J 1/16W CHIP R 200 J 1/10W	
W17			R92-2053-05	CHIP R 0 J 1/8W	
S1 ,2 S3			S68-0838-05 S68-0859-05	PUSH SWITCH PUSH SWITCH	
D1 ,2 D3 D4 D5 IC1			DAN202U DA204U DAN202U MA8051-L AN22000AA	DIODE DIODE DIODE ZENER DIODE ANALOGUE IC	
IC2 IC4 IC6 Q1 Q2			MN662774KG1 BA5917AFP NJM4565MD MCH6101 DTC124EUA	MOS-IC ANALOGUE IC IC(OP AMP X2) TRANSISTOR DIGITAL TRANSISTOR	
Q3 Q4 Q5			DTA143XUA 2SA1362(Y) DTC124EUA	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	
<b>DOLBY UNIT (X87-3040-00)</b>					
C1 -4 C5 C6 C7 ,8 C9			CC73GCH1H471J CE04NW1A330M CE04NW1A470M CK73GB1H103K CE04NW1A330M	CHIP C 470PF J ELECTRO 33UF 10WV ELECTRO 47UF 10WV CHIP C 0.010UF K ELECTRO 33UF 10WV	
C10 C11 -14 C15 ,16 C17 C18 ,19			CC73GCH1H101J CK73GB1C104K CE04NW1A330M CK73GB1A474K CC73GCH1H101J	CHIP C 100PF J CHIP C 0.10UF K ELECTRO 33UF 10WV CHIP C 0.47UF K CHIP C 100PF J	
C20 C23 C24 C25 -30			CK73GB1H472K CK73GB1A224K CK73GB1E473K CC73GCH1H101J	CHIP C 4700PF K CHIP C 0.22UF K CHIP C 0.047UF K CHIP C 100PF J	
CN2 CN3 CN4 W1 -9			E40-9218-05 E40-9701-05 E40-5460-05 E31-0001-00  J74-1226-02	PIN ASSY FLAT CABLE CONNECTOR SOCKET FOR PIN ASSY JUMPER WIRE  RIGID PRINTED WIRING BOARD	
R1 -4 R5 ,6 R7 R8 R9			RK73FB2A243J RK73FB2A181J RK73GB1J203J RK73GB1J564J RK73GB1J362J	CHIP R 24K J 1/10W CHIP R 180 J 1/10W CHIP R 20K J 1/16W CHIP R 560K J 1/16W CHIP R 3.6K J 1/16W	
R10			RK73GB1J333J	CHIP R 33K J 1/16W	

Ref. No.	A d d	N e w	Parts No.	Description	Dest ination
R11 ,12 R13 VR1 ,2 W11 ,12 W14			RK73FB2A102J RK73EB2B4R7J R12-3100-05 R92-2052-05 R92-2052-05	CHIP R 1.0K J 1/10W CHIP R 4.7 J 1/8W TRIMMING POT.(10K) CHIP R 0 J 1/10W CHIP R 0 J 1/10W	
IC1 Q1 Q1 Q1			CXA2560Q DTC124EK KRC103S UN2212	ANALOGUE IC DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
<b>CD MECHANISM ASSY (X92-4130-00)</b>					
401 402 403	2C 1D 2D		A10-4482-01 A10-4225-33 A11-0915-43	CHASSIS CHASSIS CALKING ASSY SUB CHASSIS CALKING ASSY	
406 407 408 409 410	2C 2C 3C 3D 3D		D10-4306-04 D10-4305-04 D10-3087-44 D10-3092-03 D10-3093-04	ARM ASSY ARM ASSY ARM ASSY SLIDER SLIDER ASSY	
411 412 413 414 416	2D 2D 1C 1C 1D		D10-3095-04 D10-3096-04 D10-3099-24 D10-3100-04 D10-4004-04	SLIDER ASSY SLIDER ASSY SLIDER ASSY SLIDER ASSY LEVER ASSY	
417 418 419 420 421	1D 1C 2D 2C 3C		D10-4006-04 D10-4007-04 D10-4008-14 D10-4009-23 D10-4010-04	LEVER LEVER LEVER ARM LEVER	
422 424 425 426 427	3C 3D 3C 2C 3C		D10-4307-04 D10-4050-04 D10-4038-23 D10-4123-24 D13-1442-03	LEVER ASSY ARM ARM ASSY LEVER ASSY RACK (GEAR)	
429 430 431 432 433	3D 3C 3D 3D 3C		D13-1231-04 D13-1240-04 D13-1233-04 D13-1234-14 D13-1441-03	GEAR GEAR GEAR GEAR ASSY GEAR	
434 435 436 437 438	3D 3D 3C 1D 1D		D13-1232-04 D13-1241-04 D13-1242-04 D13-1243-04 D13-1244-04	GEAR GEAR GEAR GEAR GEAR	
439 440 441 443 444	1D 2C 2D 2D 2D		D13-1245-14 D13-1246-04 D13-1247-04 D13-1249-04 D13-1341-04	GEAR GEAR GEAR GEAR ASSY GEAR ASSY (LEAD SCREW)	
445 446 447 449 450	1D 2C 3D 3C 1C		D14-0668-04 D14-0670-04 D14-0674-04 D21-2228-14 D21-2229-04	ROLLER ROLLER ROLLER SHAFT SHAFT	
451	1C		D23-0925-24	RETAINER	

PARTS LIST

\* New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
452	2C		D32-0614-04	STOPPER	
453	1D		D39-0223-05	DAMPER (YELLOW)	
454	2D		D39-0224-05	DAMPER (BLACK)	
455	3D		F09-1246-04	SHEET	
458	3D		F09-1266-14	SHEET	
460	2C		G01-2770-04	EXTENSION SPRING	
461	3C		G01-2771-04	EXTENSION SPRING	
462	3C		G01-2772-24	EXTENSION SPRING	
463	3C		G01-2773-14	EXTENSION SPRING	
464	3C		G01-2774-34	EXTENSION SPRING	
465	1D		G01-2775-04	TORSION COIL SPRING	
466	1D		G01-2776-14	TORSION COIL SPRING	
467	3D		G01-2777-24	TORSION COIL SPRING	
469	2C		G01-2844-04	EXTENSION SPRING	
470	2C		G02-1231-04	FLAT SPRING	
471	2D		G02-1232-24	FLAT SPRING	
472	2C		G02-1241-24	FLAT SPRING	
475	2C		J11-0613-13	CLAMPER	
476	3C		J19-4678-13	HOLDER	
477	2D		J19-4679-24	HOLDER	
478	3D		J21-7684-13	MOUNTING HARDWARE	
479	2D		J21-7686-13	MOUNTING HARDWARE	
480	1D		J21-7690-03	MOUNTING HARDWARE	
482	3C		J84-0107-05	FLEXIBLE PRINTED WIRING BOARD	
483	1C		J90-0757-22	GUIDE	
A	2C		N09-4249-05	MACHINE SCREW (M1.7X2.5,LOCK)	
B	1D		N09-4172-05	TAPPING SCREW (2X3.5,CTITE)	
C	2D		N09-4202-05	STEPPED SCREW	
D	2C		N38-2020-46	PAN HEAD MACHIN SCREW	
E	3C		N09-4294-05	TAPTITE SCREW (BIND P TAPTIT)	
F	3D		N19-2023-04	FLAT WASHER	
G	2C		N19-2058-04	FLAT WASHER	
H	3C		N19-2093-04	FLAT WASHER	
J	2C		N39-2020-46	PAN HEAD MACHIN SCREW	
DM1	3D		T42-0764-04	DC MOTOR ASSY	
DM2	3D		T42-0763-04	DC MOTOR ASSY	
DPU1	2D		T25-0215-05	OPTICAL PICKUP HEAD	
CASSETTE MECHANISM ASSY (D40-1167-05)					
1	2B		A10-4630-08	CHASSIS ASSY	
4	3B		D10-4375-08	SLIDER(MAIN PLATE)	
5	3A		D13-1494-08	GEAR(B)	
6	3A		D13-1495-08	GEAR(C)	
7	3A		D13-1496-08	GEAR(D)	
9	2B		D10-4376-08	ARM(P-G PLATE)	
10	2B		J90-0948-08	GUID	
11	2B		D15-0919-08	PULLEY(MID)	
12	2B		D13-1497-08	GEAR(P)	
15	2B		J21-9458-08	MOUNTING HARDWARE(HEAD P-AS)	
17	2B		G02-1332-08	FLAT SPRING(HEAD SP-P)	
20	2A		D13-1498-08	RACK GEAR(OP PLATE A)	
21	1A		D10-4377-08	LEVER(EJ-LEV-A)	
22	3B		D10-4378-08	LEVER(SB.PL-AS)	
23	2A		D10-4379-08	LEVER(OP-PL-HO)	

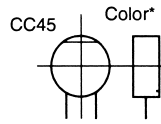
CD MECHANISM ASSY (X92-4130-00)					
Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
24	1A		D10-4380-08	LEVER(EJE-LEV-A)	
25	1A		G01-2960-08	TENSION COIL SPRING(E LEV-SP)	
26	3A		D13-1499-08	GEAR(FR)	
27	3A		D10-4381-08	ARM(FR-PLATE)	
30	2B		D10-4382-08	ARM ASSY(PINCH ROLLER F)	
31	2B		D10-4383-08	ARM ASSY(PINCH ROLLER R)	
33	1B		G01-2961-08	TORSION SPRING(SA)	
34	2B		D10-4384-08	ARM(SW)	
44	1A		E39-0425-08	WIRE HARNESS(M CONNECTOR ASSY)	
45	2A		J11-0632-08	CLAMPER	
48	3B		D01-0613-08	FLYWHEEL ASSY	
49	3B		D16-0616-08	BELT	
52	1B		D10-4385-08	ARM(CASSETTE LIFTER B)	
53	1B		J19-4953-08	CASSETTE HOLDER	
54	1A		G11-1861-08	CUSHION	
56	1B		D10-4386-08	ARM ASSY	
57	1B		G01-2962-08	TENSION COIL SPRING	
58	1B		D10-4387-08	SLIDER	
65	2A		B09-0522-08	REEL CAP	
66	2A		G01-2963-08	COMPRESSION SPRING	
67	2A		D03-0314-08	REEL GEAR ASSY	
75	3A		J69-0510-08	ADHESIVE TAPE(FFC)	
90	3A		J26-4043-08	PC BORD ASSY	
92	3A		E39-0424-08	FLAT CABLE(FFCM4)	
94	3A		T95-0245-08	PHOTO COUPLER	
A	3A		N09-4324-08	SCREW(2X2.5)	
B	2A		N19-2136-08	FLAT WASHER(1.55X35)	
C	2A		N09-4325-08	SCREW(2X13ADS)	
CM1	1A		T42-1002-08	MOTOR ASSY(MAIN)	
CM2	1A		T42-1001-08	MOTOR ASSY(SUB A)	
D	2A		N09-4326-08	SCREW(2X3)	
E	2A		N09-4058-08	SEMS(2X3AMS)	
F	2B		N19-2038-08	FLAT WASHER(0.85X2.8)	
G	2B		N19-2136-08	FLAT WASHER(1.55X3)	
H	2B		N19-2137-08	FLAT WASHER(2.1X3.5)	
HD1	2B		T31-0226-08	PLAYBACK HEAD	
J	3B		N19-2138-08	FLAT WASHER(2.1X3.5)	
K	3B		N09-4327-08	SCREW	
N	1B		N19-2139-08	FLAT WASHER(2.1X4.0)	

## PARTS LIST

### CAPACITORS

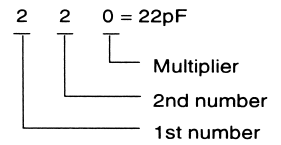
CC 45 TH 1H 220 J  
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc.  
2 = Shape ... round, square, ect.  
3 = Temp. coefficient  
4 = Voltage rating  
5 = Value  
6 = Tolerance



#### Capacitor value

- 010 = 1pF  
100 = 10pF  
101 = 100pF  
102 = 1000pF = 0.001μF  
103 = 0.01μF



#### Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

#### Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -40	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

#### (Less than 10pF)

Gode	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

#### Voltage rating

2nd word 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

#### Chip capacitors

- (EX) C C 7 3 F S L 1 H 0 0 0 J  
1 2 3 4 5 6 7  
(Chip)(CH,RH<UJ,SL)
- (EX) C K 7 3 F F 1 H 0 0 0 Z  
1 2 3 4 5 6 7  
(Chip)(B,F)
- Refer to the table above.  
1 = Type  
2 = Shape  
3 = Dimension  
4 = Temp. coefficient  
5 = Voltage rating  
6 = Value  
7 = Tolerance

#### Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.0 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0
H	1.0 ± 0.05	0.5 ± 0.05	0.5 ± 0.05

### RESISTORS

#### Chip resistor (Carbon)

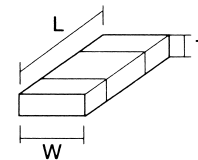
- (EX) R K 7 3 E B 2 B 0 0 0 J  
1 2 3 4 5 6 7  
(Chip)(B,F)

#### Carbon resistor (Nomal type)

- (EX) R D 1 4 B B 2 C 0 0 0 J  
1 2 3 4 5 6 7

- 1 = Type  
2 = Shape  
3 = Dimension  
4 = Temp. coefficient  
5 = Rating wattage  
6 = Value  
7 = Tolerance

#### Dimension



#### Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1
H	1.0 ± 0.05	0.5 ± 0.05	0.35 ± 0.05

#### Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/16W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		



# DPX-4020

## SPECIFICATIONS

### ●M type

#### FM Section

Frequency Range	87.5MHz~108.0MHz(50kHz)
(Frequency Step)	87.9MHz~107.9MHz(200kHz)
Channel Space Selection	50kHz/200kHz
Usable Sensitivity(S/N:30dB)	9.3dBf(0.8μV/75Ω)
Quieting Sensitivity(S/N:50dB)	15.2dBf(1.6μV/75Ω)
Frequency Response(±3.0dB)	30Hz~15kHz
S/N(dB)	70dB(MONO)
Selectivity	≥80dB(±400kHz)
Stereo Separation	40dB(1kHz)

#### AM Section

Frequency Range	531kHz~1611kHz(9kHz)
(Frequency Step)	530kHz~1700kHz(10kHz)
Channel Space Selection	9kHz/10kHz
Usable Sensitivity(S/N:20dB)	28dBμV(25μV)

#### CASSETTE Section

Tape Speed	4.76cm/sec.
Wow & Flutter	0.08(%) (WRMS)
Frequency Response(±3.0dB)	25Hz~22kHz(70μs)
Stereo Separation	40(1kHz)
S/N Ratio(dB) Dolby NR off	60dB(BNR off)
Dolby BNR on	68dB

#### CD Section

Laser Diode	GaAlAs(λ=780nm)
Digital Filter(D/A)	8 Times Over Sampling
D/A Converter	1Bit
Spindle Speed	500~200rpm(CLV)
Wow & Flutter	Below Mesurable Limit
Frequency Response	10Hz~20kHz(±1dB)
Total Harmonic Distortion	0.01%(1kHz)
S/N Ratio	93dB(1kHz)
Dynamic Range	93dB
Channel Separation	85dB

#### AMPLIFIER Section

Maximum Power	47W×4
Full Bandwidth Power	22W×4(at less than 1%THD)
Preout Level(V)	1500mV/10kΩ
Preout Impedance(Ω)	≤600Ω

#### GENERAL

Operating Voltage	14.4V(11V~16V)
Current Consumption	10A
Installation Size (W)	178mm(7in)
(H)	100mm(3-15/16in)
(D)	155mm(6-1/8in)
Weight	2.7kg

### ●K type

#### FM Section

Frequency Range	87.9MHz~107.9MHz
(Frequency Step)	(200kHz)
Channel Space Selection	—
Usable Sensitivity(S/N:30dB)	9.3dBf(0.8μV/75Ω)
Quieting Sensitivity(S/N:50dB)	15.2dBf(1.6μV/75Ω)
Frequency Response(±3.0dB)	30Hz~15kHz
S/N(dB)	70dB(MONO)
Selectivity	≥80dB(±400kHz)
Stereo Separation	40dB(1kHz)

#### AM Section

Frequency Range	530kHz~1700kHz
(Frequency Step)	(10kHz)
Channel Space Selection	—
Usable Sensitivity(S/N:20dB)	28dBμV(25μV)

#### CASSETTE Section

Tape Speed	4.76cm/sec.
Wow & Flutter	0.08(%) (WRMS)
Frequency Response(±3.0dB)	25Hz~22kHz(70μs)
Stereo Separation	40(1kHz)
S/N Ratio(dB) Dolby NR off	60dB(BNR off)
Dolby BNR on	68dB

#### CD Section

Laser Diode	GaAlAs(λ=780nm)
Digital Filter(D/A)	8 Times Over Sampling
D/A Converter	1Bit
Spindle Speed	500~200rpm(CLV)
Wow & Flutter	Below Mesurable Limit
Frequency Response	10Hz~20kHz(±1dB)
Total Harmonic Distortion	0.01%(1kHz)
S/N Ratio	93dB(1kHz)
Dynamic Range	93dB
Channel Separation	85dB

#### AMPLIFIER Section

Maximum Power	47W×4
Full Bandwidth Power	22W×4(at less than 1%THD)
Preout Level(V)	1500mV/10kΩ
Preout Impedance(Ω)	≤600Ω

#### GENERAL

Operating Voltage	14.4V(11V~16V)
Current Consumption	10A
Installation Size (W)	178mm(7in)
(H)	100mm(3-15/16in)
(D)	155mm(6-1/8in)
Weight	2.7kg (5.9lbs)

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